
Public Notice

Applicant:

New York State Department of
Transportation

Date:

Published: June 2, 2003

Expires: July 1, 2003

U.S. Army Corps

of Engineers

In Reply Refer To:

Buffalo District CELRB-TD-R RE: 2002-01646(1) Section: NY 404

**Application for Permit under Authority of
Section 404 of the Clean Water Act (33 U.S.C. 1344).**

The New York State Department of Transportation (NYSDOT), 107 Broadway Street, Hornell, New York 14843 has applied for a Department of the Army permit to impact 1.74 acres of waters of the U.S. for the upgrade of 1.93 miles of New York State Route 17 (RT 17), located in the Town and Village of Horseheads, Chemung County, New York.

The NYSDOT proposes to reconstruct 1.93 miles of RT 17 from, and including the intersection with, NYS Route 13 on the east and extending west to Thorne Street and the vicinity of Exit 52. The purpose of the project is to improve traffic safety and mobility by eliminating five at-grade intersections and converting RT 17 to a controlled access expressway.

The project entails the permanent loss of 1.74 acres of waters of the U.S., including 1.29 acres of Federal wetland and 0.45 acre of riverine area. Twelve jurisdictional areas were delineated within the project area and are labeled Wetlands "A" to "L". (See Sheet 2 of 29 for locations.) The jurisdictional areas included Newtown Creek, Beaver Brook, and their tributaries and several adjacent wetlands. It was determined that Areas E, J&K would not be impacted by the project.

The specific project impacts are as follows:

A 4.42 acre portion of Wetland A was delineated within the project area. This wetland is associated with a tributary to Beaver Brook, which is carried to Wetland B via an existing culvert in Ramp F. This wetland will only incur a 0.05 acre temporary impact from culvert replacement and minor grading work. (See Sheets 23&24 of 29 for culvert details.) The area will be completely restored and seeded with a wetland seed mix. The new culvert has been designed to maintain flow to both the northern and southern portions of Wetland B and mitigation areas.

Wetland B is comprised of an intermittent tributary to Beaver Brook

(0.05 acres of riverine wetland) and 1.88 acres of contiguous emergent wetland. This wetland is located within the existing RT 17 and RT 13 interchange. Existing culverts connect this wetland to Wetlands A & C. Approximately 0.29 acres of emergent wetland and 0.01 acre of riverine wetland in Wetland B will be impacted by the construction of Ramp C through the center of the wetland. A new culvert will be installed in Ramp C to maintain hydrology to the bisected wetland. (See Sheets 21&22 of 29.) The impact includes embankment fill and rock aprons around the new culverts. Portions of this wetland will also be temporarily impacted during grading activities associated with the construction of the mitigation area. These temporary impacts were not included in the impact tables as the area will be completely restored. Wetland C is 0.05 acres in size and consists of a continuation of the intermittent tributary from Wetland B and 0.03 acres of associated emergent wetland. Wetland C currently discharges into Wetland D/Beaver Brook via a culvert in Ramps C&D. About 0.01 acre of this area will be impacted by embankment fill for Ramp E and NYS Route 13. This wetland will also be temporarily impacted during grading activities for the construction of the mitigation area. After construction, this wetland will no longer discharge into Wetland D. Instead, the drainage will be rerouted through the mitigation area and eventually discharge into Beaver Brook south of RT 17.

Wetland D consists of Beaver Brook (0.15 acre of riverine wetland), a perennial stream, and 2.92 acres of contiguous wetland located north of RT 17 within the project area. Approximately 0.08 acres of riverine wetland and 0.95 acres of emergent wetland will be lost by the construction of Ramps C and D, including the installation of 295 feet of box culvert, rock inlet apron and water diversion channel (See Sheets 13-20 of 29). Currently, about 200 feet of Beaver Brook flows through an existing culvert under RT 17. The new box culvert will be precast with an interior ledge located about 4 feet above the culvert bottom to allow passage of small mammals. A layer of medium stone fill will be placed on the ledge (See Sheets 16&17 of 29).

Wetland F is a 3.11 acre portion of the perennial Newtown Creek (1.93 acre riverine wetland within the project area) and will incur a 0.07 acre permanent impact to open water and emergent wetland from the installation of rock riprap to protect the new abutments. Wetland F will also incur a 0.07 acre temporary impact from cofferdam installation and will have 0.07 acre restored by the removal of the existing piers within the channel. The new bridge structure will now span the creek with no pier supports. In addition, the new abutments will be moved back to increase the hydraulic opening. (See Sheets 7-12 of 29)

Wetland G consists of Beaver Brook (1.05 acre of riverine wetland) and 1.4 acres of contiguous emergent, scrub-shrub and forested wetland located to the south of RT 17 within the project area. The installation of the culvert and rock outlet apron will permanently impact 0.06 acres of riverine wetland.

Wetland H consists of a 0.89 acre reed canary (Phalaris arundinacea) dominated emergent wetland located to the south of RT 17. Only a portion of this wetland complex was delineated as a contiguous scrub-shrub and forested wetland extends south and connects to Wetland G. The wetland will incur a 0.04 acre permanent impact to the emergent wetland from the placement of embankment fill and stone fill for the

roadside drainage.

Wetland I is a 0.34 acre intermittent stream and will experience 0.22 acres (~580 feet) of impact via the placement of the stream into a culvert. The drainage pattern of this stream will not be affected and will continue to discharge into Beaver Brook via the existing closed system.

Wetland L is a 0.03 acre emergent wetland which drains to the west and ultimately discharges into Beaver Brook. Approximately 0.01 acre of this wetland will be permanently impacted by embankment fill.

The NYSDOT has reduced the proposed impacts to waters of the US through the use of steepened slopes on the road embankments and the use of retaining walls, where feasible.

To mitigate for the permanent impacts to 1.74 acres of waters of the U.S., the NYSDOT proposes to create a total of 1.85 acres of emergent wetland adjacent to Wetlands B and C. In addition, they propose to preserve in perpetuity, through acquisition and permanent retention by NYSDOT, a total of 5.10 acres of habitat (1.54 acres of wetland and 3.56 acres of upland) along the north side of RT 17 adjacent to the project area. The conservation area will preserve a wildlife corridor from Newtown Creek east to Wetland E (NYS Regulated Wetland HH-6), including portions of Wetland D and Beaver Brook. NYSDOT will install a split rail fence along the north boundary of the conservation area to demark and reduce potential impacts from adjacent agricultural activities without affecting wildlife passage. The former agricultural lands within the conservation area will be seeded with a wildlife mix: birdsfoot trefoil (Lotus corniculatus), climax timothy (Phleum pratense) and smooth brome grass (Bromus inermis). The NYSDOT reviewed several other locations adjacent to the project area for mitigation sites. However, it was determined that wetland creation on these sites would require the use of water control structures and long term maintenance. See Sheets 25-29 of 29 for mitigation details.

Location and details of the above described work are shown on the attached maps and drawings.

Questions pertaining to the work described in this notice should be directed to Bridget E. Brown, who can be contacted by calling (315) 255-8090, or by e-mail at: bridget.brown@usace.army.mil

The following authorization(s) may be required for this project:

Water Quality Certification (or waiver thereof) from the New York State Department of Environmental Conservation.

There are no registered historic properties or properties listed as being eligible for inclusion in the National Register of Historic Places that will be affected by this project.

In addition, available evidence indicates that the proposed work will not affect a species proposed or designated by the U.S. Department of the Interior as threatened or endangered, nor will it affect the critical habitat of any such species.

This notice is promulgated in accordance with Title 33, Code of Federal Regulations, parts 320-330. Any interested party desiring to comment on the work described herein may do so by submitting their comments, in writing, so that they are received no later than 4:30 pm on the expiration date of this notice.

Comments should be sent to the U. S. Army Corps of Engineers, 7413 County House Road, Auburn, New York 13021, and should be marked to the attention of Bridget E. Brown, or by e-mail at: bridget.brown@usace.army.mil. A lack of response will be interpreted as meaning that there is no objection to the work as proposed.

Comments submitted in response to this notice will be fully considered during the public interest review for this permit application. All written comments will be made a part of the administrative record which is available to the public under the Freedom of Information Act. The Administrative Record, or portions thereof may also be posted on a Corps of Engineers internet web site. Due to resource limitations, this office will normally not acknowledge the receipt of comments or respond to individual letters of comment.

Any individual may request a public hearing by submitting their written request, stating the specific reasons for holding a hearing, in the same manner and time period as other comments.

Public hearings for the purposes of the Corps permit program will be held when the District Commander determines he can obtain additional information, not available in written comments, that will aid him in the decision making process for this application. A Corps hearing is not a source of information for the general public, nor a forum for the resolution of issues or conflicting points of view (witnesses are not sworn and cross examination is prohibited). Hearings will not be held to obtain information on issues unrelated to the work requiring a permit, such as property ownership, neighbor disputes, or the behavior or actions of the public or applicant on upland property not regulated by the Department of the Army. Information obtained from a public hearing is given no greater weight than that obtained from written comments. Therefore, you should not fail to make timely written comments because a hearing might be held.

The decision to approve or deny this permit request will be based on an evaluation of the probable impact, including cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefits which reasonably may be expected to accrue from the proposal must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered including the cumulative effects thereof; among these are conservation, economics, aesthetics, general environmental concerns, wetlands, historic properties, fish and wildlife values, flood hazards, flood plain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, considerations of property ownership, and in general, the needs and welfare of the people.

The Corps of Engineers is soliciting comments from the public; Federal, state and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

Paul G. Leuchner
Chief, Regulatory Branch

NOTICE TO POSTMASTER: It is requested that this notice be posted continuously and conspicuously for 30 days from the date of issuance.

North

Not to Scale



FA
isher Associates
ENGINEERS AND SURVEYORS

Notes:

1. Plan adapted from Microsoft TerraServer

NEW YORK STATE DEPARTMENT OF
TRANSPORTATION - PIN 6239.00
D/A Processing No. 2002-01646(1)
Chemung County, New York
Quad: HORSEHEADS
Sheet 1 of 29

Figure No. 1
Project Location Map
Route 17 Horseheads
Town of Horseheads, Chemung County, NY
FA #98018
September 2002

NEW YORK STATE DEPARTMENT OF
 TRANSPORTATION - PIN 6239.00
 D/A Processing No. 2002-01646(1)
 Chemung County, New York
 Quad: HORSEHEADS
 Sheet 2 of 29

WETLAND LOCATION MAP
 ROUTE 17
 HORSEHEADS
 FIGURE NO. 2

F2 ASSOCIATES
 ENGINEERS AND SURVEYORS
 MARCH 2003

*Note: Southern boundary of Wetland H was not delineated as shown on plan.
 Wetland H actually extends south and joins to Wetland G.
 *Note: Boundaries of Wetlands A,D,E,F,G&H not fully delineated as they extend beyond the project area.

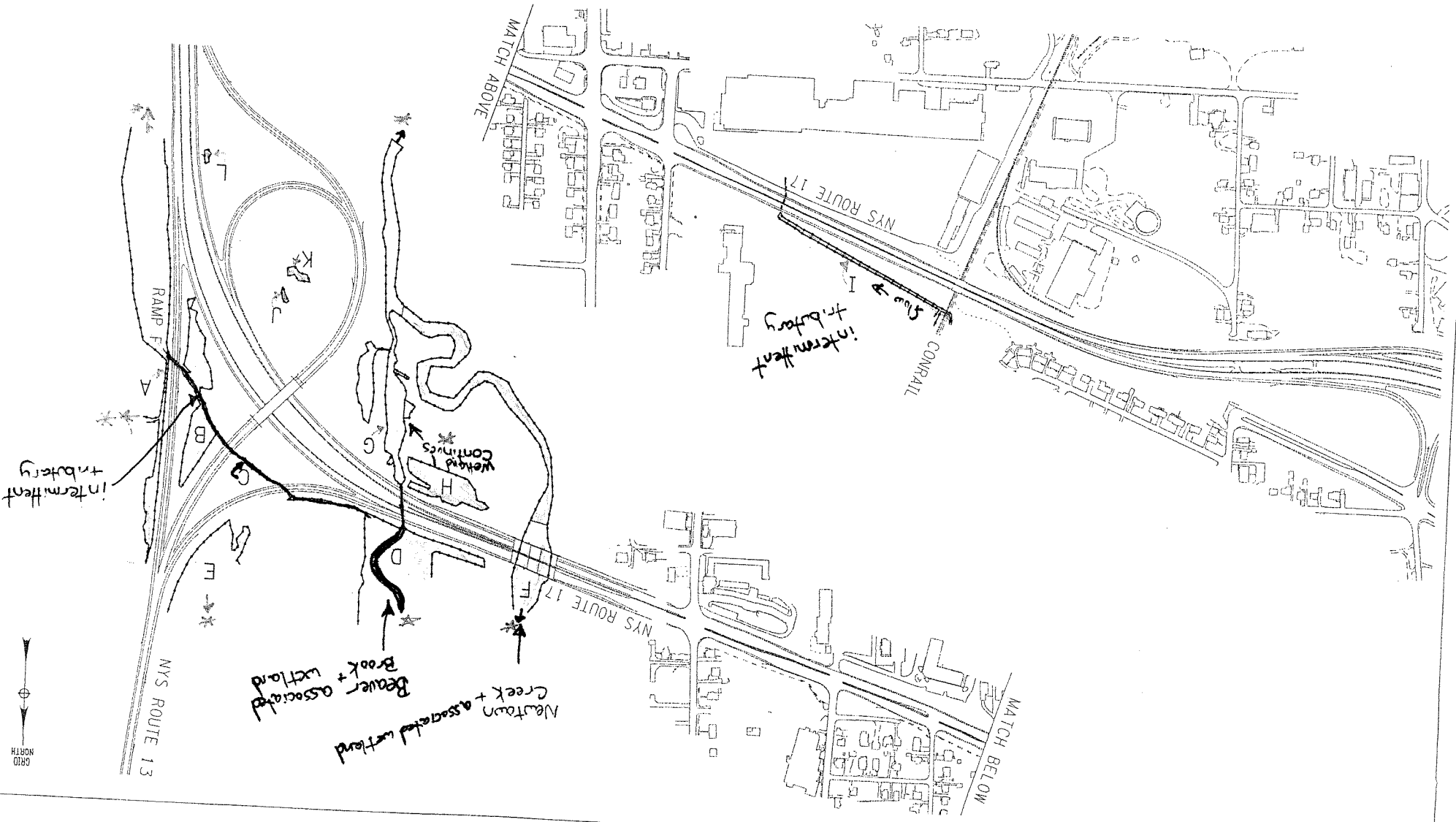


Table No. 1 (Revised)
Wetland Impacts Preferred Alternative (No. 1) – Final Construction Conditions

Area Identification	Area Type	Jurisdiction	Total Delineated Area	Impacted Area
A	Palustrine	Federal	1.79 hectares (4.42 acres)	No Impact
B	Riverine (Tributary)	Federal	0.02 hectares (0.05 acres)	0.0031 hectares (0.008 acres)
	Palustrine	Federal	0.76 hectares (1.88 acres)	0.1167 hectares (0.288 acres)
C	Riverine (Tributary)	Federal	0.007 hectares (0.02 acres)	0.0019 hectares (0.005 acres)
	Palustrine	Federal	0.012 hectares (0.03 acres)	0.0014 hectares (0.003 acres)
D	Riverine (Beaver Brook)	Federal	0.06 hectares (0.15 acres)	0.0327 hectares (0.081 acres)
	Palustrine	Federal	1.18 hectares (2.92 acres)	0.3865 hectares (0.955 acres)
E	Palustrine	State Federal	0.52 hectares (1.28 acres)	No Impact (Work req. w/in buffer)
F	Riverine (Newtown Cr.)	Federal	0.78 hectares (1.93 acres)	0.0302 hectares (0.075 acres)
G	Riverine (Beaver Br.)	Federal	0.43 hectares (1.05 acres)	0.0227 hectares (0.056 acres)
	Palustrine	Federal	0.57 hectares (1.40 acres)	No Impact
H	Palustrine	Federal	0.36 hectares (0.89 acres)	0.0151 hectares (0.037 acres)
I	Riverine (Tributary)	Federal	0.14 hectares (0.34 acres)	0.0906 hectares (0.224 acres)
J	Palustrine	Federal	0.01 hectares (0.03 acres)	No Impact
K	Palustrine	Federal	0.03 hectares (0.08 acres)	No Impact
L	Palustrine	Federal	0.01 hectares (0.03 acres)	0.0037 hectares (0.009 acres)

Notes:

1. See Table No. 2 for estimated construction phase impacts.
2. See Figure Nos. 3A and 3B for locations of impacted wetlands.

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Chemung County, New York
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**Total Permanent
Impacts to = 1.74 acre
waters of US**

PROPOSED TEMPORARY AND PERMANENT IMPACTS

Table No. 2
Wetland Impacts Preferred Alternative (No. 1) - Interim Construction Conditions

Impacts Projected Alternative (No. 1) - Interim Construction Conditions							
Area Identification	Area Type	Jurisdiction	Total Delineated Area	Impacted Area Phase 1	Impacted Area Phase 2	Impacted Area Phase 3	Impacted Area Phase 4
B	Riverine (Grubbery)	Federal	1.79 hectares (4.42 acres) 0.02 hectares (0.05 acres) 0.76 hectares (1.88 acres) 0.007 hectares (0.02 acres) 0.012 hectares (0.03 acres) 0.06 hectares (0.15 acres) 1.18 hectares (2.92 acres) 0.52 hectares (1.28 acres) Federal + State	0.0205 hectares (0.051 acres)* 0.0031 hectares (0.008 acres) No Impact No Impact No Impact No Impact No Impact No Impact No Impact	No Impact No Impact No Impact No Impact No Impact No Impact No Impact No Impact No Impact	No Impact No Impact No Impact No Impact No Impact No Impact No Impact No Impact No Impact	
C	Riverine (Grubbery)	Federal	0.007 hectares (0.02 acres) 0.012 hectares (0.03 acres) 0.06 hectares (0.15 acres) 1.18 hectares (2.92 acres) 0.52 hectares (1.28 acres) Federal + State	0.0019 hectares (0.005 acres) 0.0014 hectares (0.003 acres) 0.0327 hectares (0.081 acres) 0.3865 hectares (0.955 acres) No Impact No Impact No Impact No Impact No Impact	No Impact No Impact No Impact No Impact No Impact No Impact No Impact No Impact No Impact	No Impact No Impact No Impact No Impact No Impact No Impact No Impact No Impact No Impact	
D	Riverine (Beaver Brook)	Federal	0.06 hectares (0.15 acres) 1.18 hectares (2.92 acres) 0.52 hectares (1.28 acres) Federal + State	0.0014 hectares (0.003 acres) 0.0327 hectares (0.081 acres) 0.3865 hectares (0.955 acres) No Impact No Impact No Impact No Impact No Impact	No Impact No Impact No Impact No Impact No Impact No Impact No Impact No Impact No Impact	No Impact No Impact No Impact No Impact No Impact No Impact No Impact No Impact No Impact	
E	Palustrine	State + Federal	0.52 hectares (1.28 acres)	No Impact No Impact No Impact No Impact No Impact No Impact No Impact No Impact No Impact	No Impact No Impact No Impact No Impact No Impact No Impact No Impact No Impact No Impact	No Impact No Impact No Impact No Impact No Impact No Impact No Impact No Impact No Impact	
F	Riverine (Newtown Cr.)	Federal	0.78 hectares (1.93 acres) 0.0069 hectares (0.017 acres) No Impact No Impact No Impact No Impact No Impact No Impact No Impact	0.0272 hectares (0.067 acres)* No Impact No Impact No Impact No Impact No Impact No Impact No Impact No Impact	No Impact No Impact No Impact No Impact No Impact No Impact No Impact No Impact No Impact		
G	Riverine (Beaver Br.)	Federal	0.43 hectares (1.05 acres) 0.57 hectares (1.40 acres) 0.36 hectares (0.89 acres) 0.14 hectares (0.34 acres) 0.0906 hectares (0.224 acres) No Impact No Impact No Impact No Impact No Impact	No Impact No Impact No Impact No Impact No Impact No Impact No Impact No Impact No Impact	No Impact No Impact No Impact No Impact No Impact No Impact No Impact No Impact No Impact		
H	Palustrine	Federal	0.36 hectares (0.89 acres)	No Impact	No Impact	No Impact	No Impact
I	Riverine (Grubbery)	Federal	0.14 hectares (0.34 acres) 0.0906 hectares (0.224 acres) No Impact No Impact No Impact No Impact No Impact No Impact No Impact	No Impact No Impact No Impact No Impact No Impact No Impact No Impact No Impact No Impact	No Impact No Impact No Impact No Impact No Impact No Impact No Impact No Impact No Impact		
J	Palustrine	Federal	0.01 hectares (0.03 acres)	No Impact	No Impact	No Impact	No Impact
K	Palustrine	Federal	0.03 hectares (0.08 acres)	No Impact	No Impact	No Impact	No Impact
L	Palustrine	Federal	0.01 hectares (0.03 acres)	No Impact	No Impact	No Impact	No Impact

Notes:

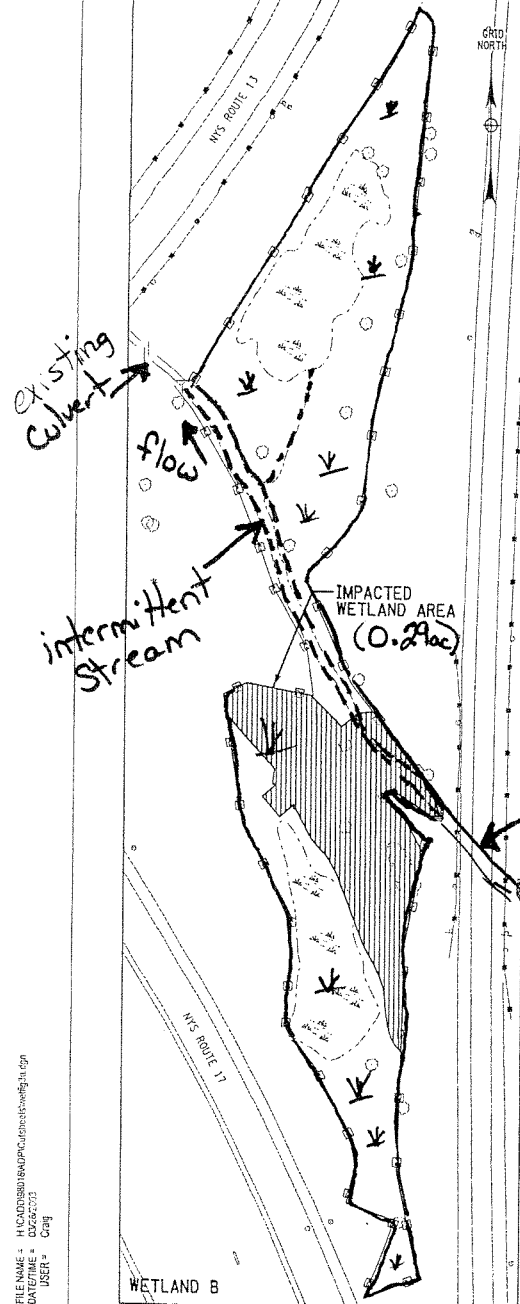
1. Construction phase impacts based on proposed schedule/sequence that may be changed slightly by the actual contractor's schedule.
2. Phase impacts represent impacts that may occur at that time. Impacts are not cumulative from phase to phase.
3. See Table No. 1 for final build out conditions.

* = temporary impact

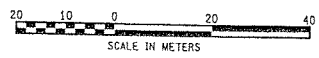
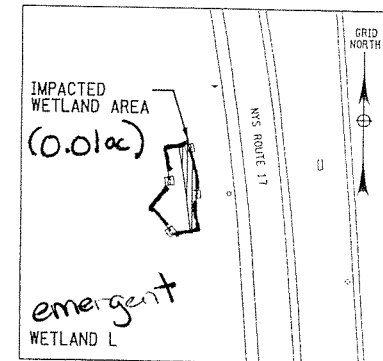
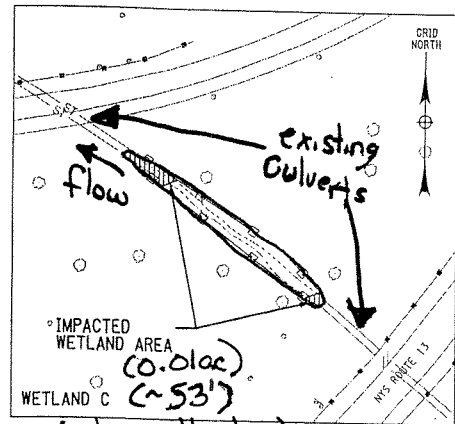
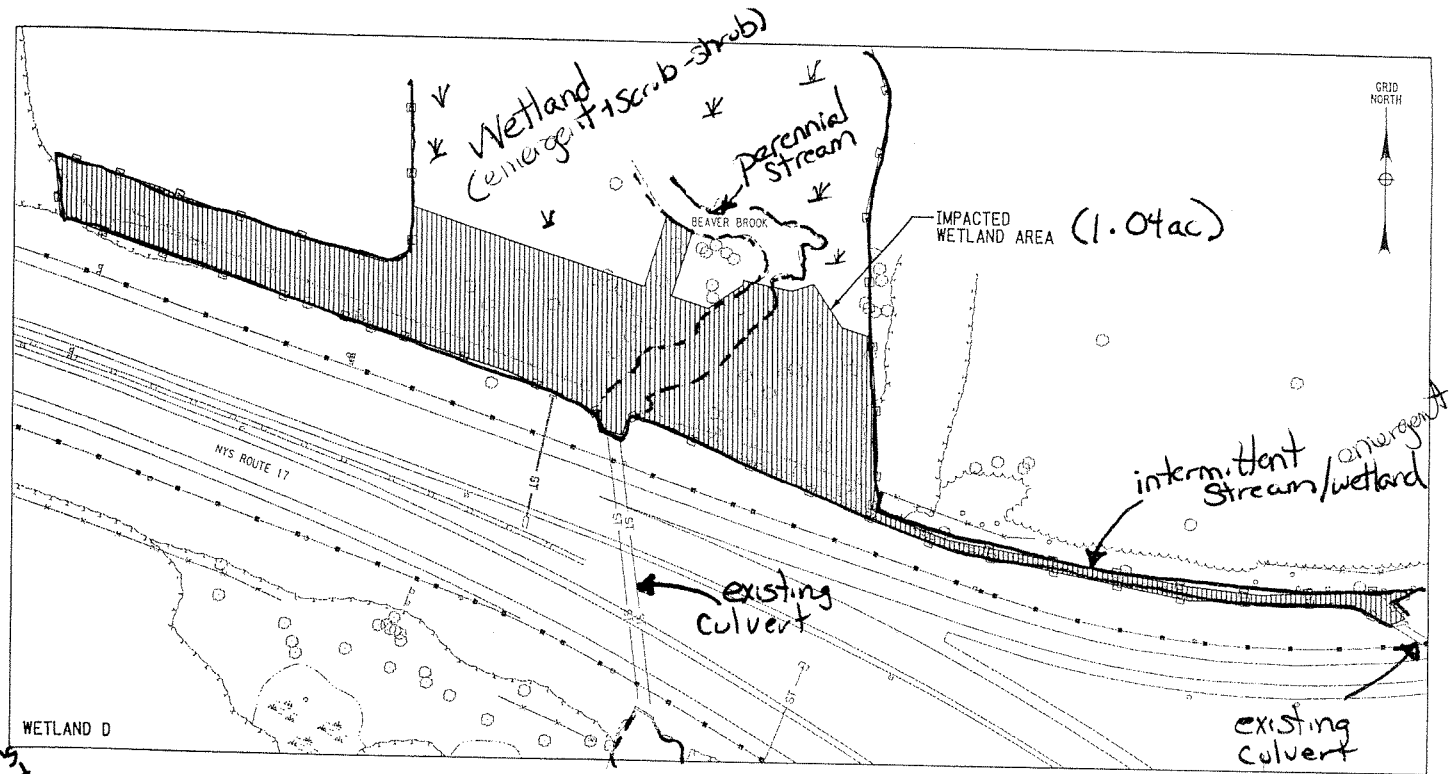
H:\ENGINEERING\PROJECTS\98018 HORSEHEADS\Wetland Report\Interim Construction - 2003 Impact Table.doc

NEW YORK STATE DEPARTMENT OF
TRANSPORTATION - PIN 6239.00
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Chemung County, New York
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FILE NAME - H:\CADD\18018A\PC\18018A.dwg
 DATE/TIME - 02/26/2003
 USER - Cag



intermittent stream
 + emergent wetland



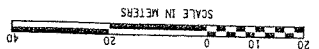
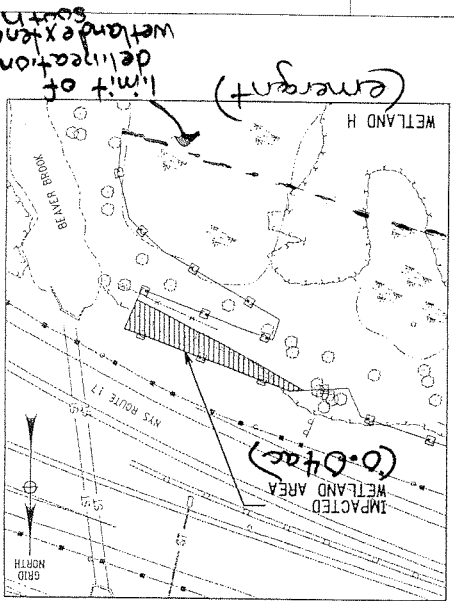
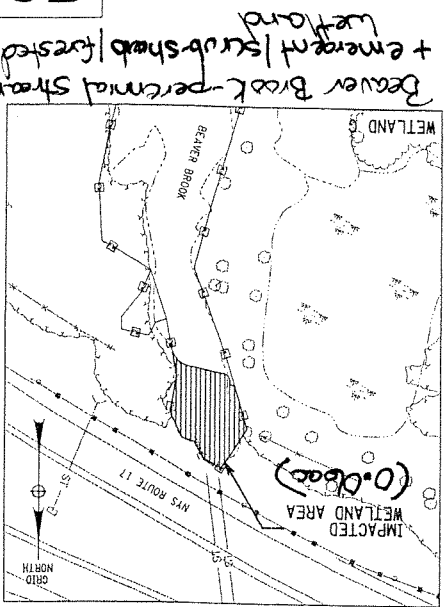
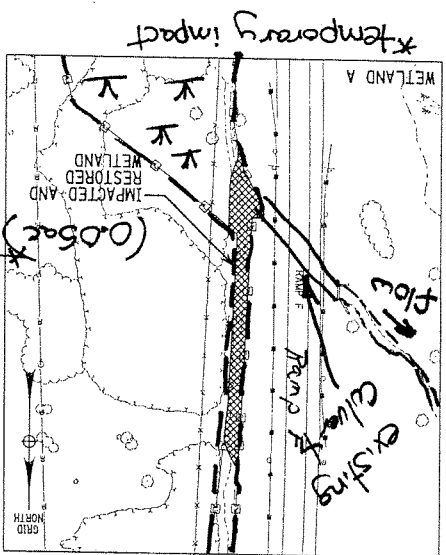
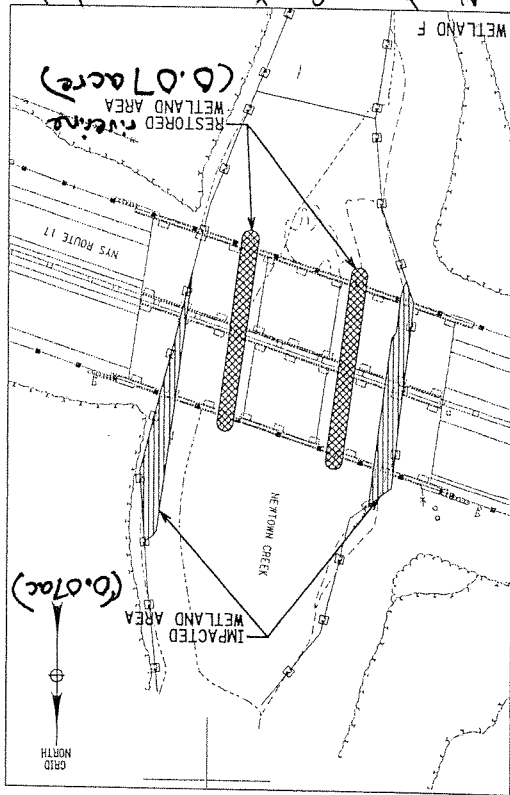
FA Fisher Associates
 ENGINEERS AND SURVEYORS
 MARCH 2003

IMPACTED WETLAND MAP

ROUTE 17
 HORSEHEADS
 FIGURE NO. 3A

NEW YORK STATE DEPARTMENT OF
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 Chemung County, New York
 Quad: HORSEHEADS
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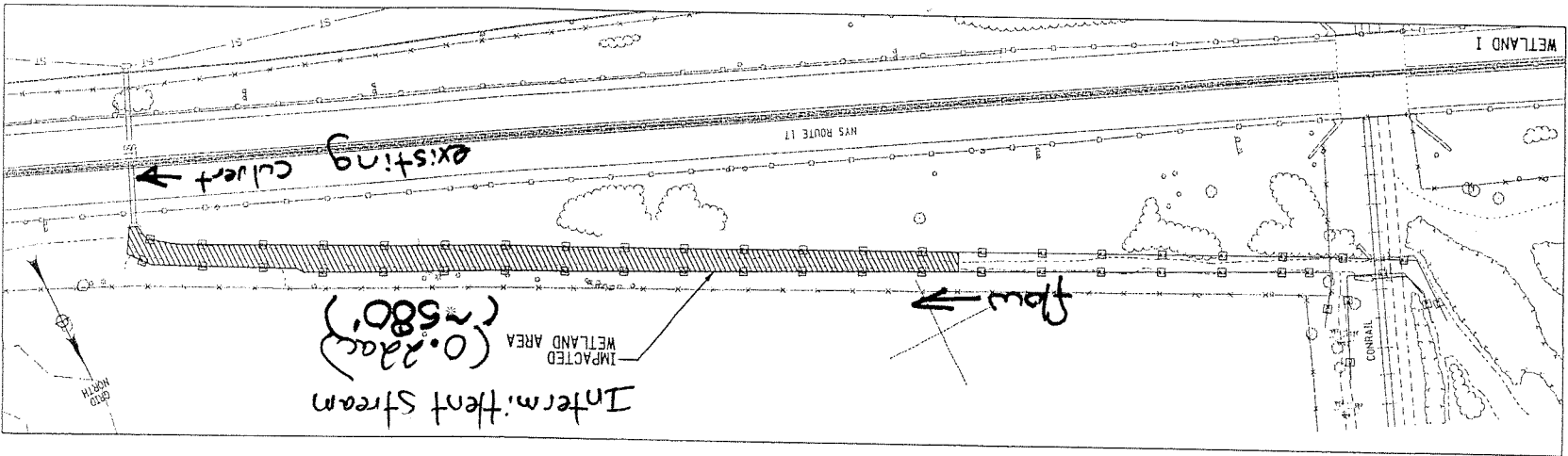
Newtown Creek - perennial stream
 with emergent wetland



Fisher Associates
 ENGINEERS AND SURVEYORS
 MARCH 2003

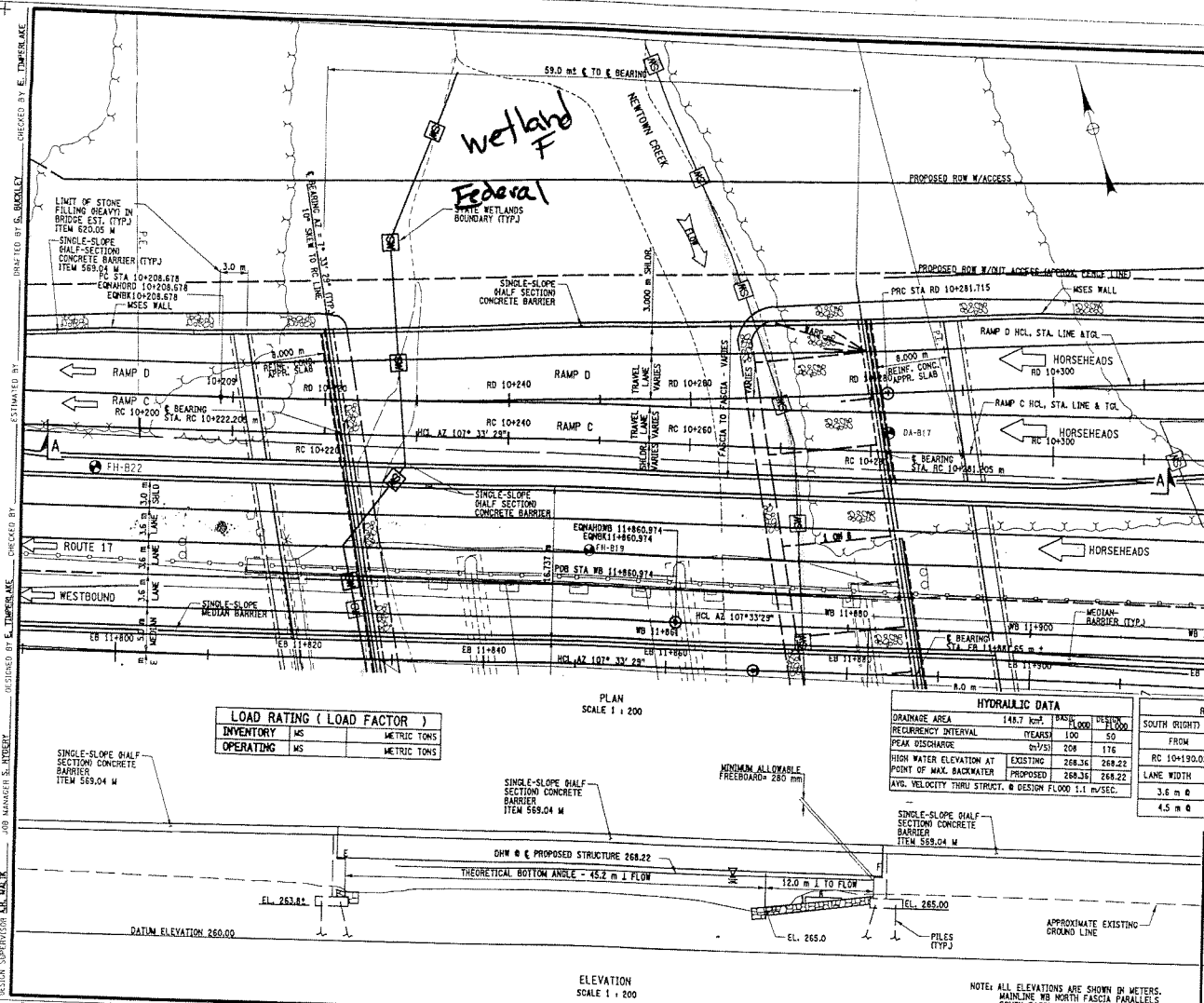
IMPACTED WETLAND MAP
 ROUTE 17
 HORSEHEADS
 FIGURE NO. 3B

NEW YORK STATE DEPARTMENT OF
 TRANSPORTATION - PIN 6039.00
 D/A Processing No. 2002-01646(1)
 Chemung County, New York
 Quad: HORSEHEADS
 Sheet 6 of 29



NEWTOWN CREEK (WETLAND F)

PRELIMINARY PLAN RECOMMENDED BY: G. A. CHRISTIAN
 FILE NAME: H:\CADD\980818\Newtown Creek\2-26-02\6239.00\6239.00.dwg
 DATE: 05/01/03
 USER: G. Christian
 DESIGN: G. Christian
 CHECKED BY: E. DIERKER
 ESTIMATED BY: E. DIERKER
 DRAFTED BY: E. DIERKER
 SHEET SCALE = 200

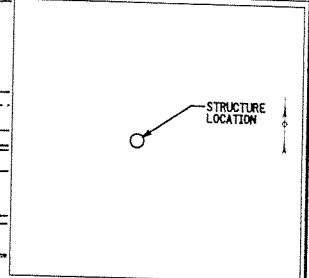


LOAD RATING (LOAD FACTOR)			
INVENTORY	MS	METRIC TONS	
OPERATING	MS	METRIC TONS	

HYDRAULIC DATA			
DRAINAGE AREA	148.7 km ²	BASE FLOOD	DESIGN FLOOD
REQUENCY INTERVAL	(YEARS)	100	50
PEAK USUANCE	(m ³ /s)	208	176
HIGH WATER ELEVATION AT POINT OF MAX. BACKWATER	EXISTING	268.36	268.22
	PROPOSED	268.36	268.22
AVG. VELOCITY THRU STRUCT.	DESIGN FLOOD	1.1 m/sec.	

FED. ROAD NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.			

N.Y.S. ROUTE 17 - HORSEHEADS
 S.H. 35B, S.H. 69-3, S.H. 53-5, S.H. 54-15
 VILLAGE OF HORSEHEADS
 TOWN OF HORSEHEADS, CHEMUNG COUNTY
 P.I.N. 6239.00 B.N. 1078190



RAMP D DESIGN SPEED=60 km/h		RAMP C		RAMP B		RAMP A	
POB/PC	RD 10+208.678	FROM	TO	FROM	TO	FROM	TO
R	1000.000 m	RC 10+190.025	RC 10+301.277	RD 10+196.829	RD 10+298.330	RD 10+196.829	RD 10+298.330
L _a	73.037 m	LANE WIDTH		LANE WIDTH		LANE WIDTH	
		3.6 m	RC 10+208.752	3.6 m	RD 10+208.678	3.6 m	RD 10+208.678
		4.5 m	RC 10+319.158	4.5 m	RD 10+281.800		

ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE NOTED
 AS BUILT REVISIONS
 SIGNATURE _____ DATE _____
 RAHMS C & D OVER NEWTOWN CREEK
 GENERAL PLAN & ELEVATION (RAMP C & D)
 STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 FILENAME: 62390009.GIA REGION: 6 DATE: 1/03 DRAWING NO.: 3

GENERAL NOTES:
 DESIGN SPECIFICATIONS:
 NEW YORK STATE DEPARTMENT OF TRANSPORTATION
 STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES WITH
 ALL PROVISIONS IN EFFECT AS OF 05/01/03.
 CONSTRUCTION AND MATERIALS SPECIFICATIONS:
 STANDARD SPECIFICATIONS, CONSTRUCTION AND MATERIALS, NEW YORK
 STATE DEPARTMENT OF TRANSPORTATION, OFFICE OF ENGINEERING, DATED
 JANUARY 2, 1995 WITH CURRENT ADDITIONS AND MODIFICATIONS.

DESIGN LOADING: MS 23
 FUNCTIONAL CLASSIFICATION: URBAN PRINCIPAL ARTERIAL EXPRESSWAY
 DESIGN SPEED: 60 km/h
 PROJECTED TRAFFIC YEAR: 2033
 AMT TRAFFIC: 3420
 TWO-WAY DESIGN HOUR VOLUME: 410
 PERCENT OF TRUCK TRAFFIC: 62

BOTTOM OF FOOTING
 WEST ABUTMENT: EL. 263.82
 EAST ABUTMENT: EL. 265.32

ESTIMATED COST TO BE INCLUDED IN BRIDGE ESTIMATE.
 BRIDGE AT #1319 PER SHOULDER BREAK (SQ. m) : 1,646,000
 REMOVE EXISTING BRIDGE : 0
 DETAIL STRUCTURE : 0
 MAINTENANCE & PROTECTION OF TRAFFIC : 49,000
 SPECIAL APPROACH WORK : 0
 UTILITIES : 0
 CHANNEL WORK : 0
 TOTAL BRIDGE SHARE : 1,695,000

INDICATES BORINGS

REGION NOTES: COMMENTS RECEIVED 01/31/02, 02/12/02
 PLEASE PROVIDE ADT, 3-WAY DRY, AND VERIFY % OF TRUCK TRAFFIC - PROVIDED.
 PLEASE VERIFY THERE ARE NO DEC CONSTRUCTION RESTRICTIONS - 4/01-5/15
 PLEASE PROVIDE DETAILS FOR REMEDIATION OF CONTAMINATED SOILS - PENDING
 PLEASE INDICATE IF ANY AESTHETIC TREATMENTS ARE REQUIRED ON THE ABUTMENTS
 PLEASE VERIFY LANE AND SHOULDER WIDTH CHART - VERIFIED
 PLEASE VERIFY OHV, OW AND LW ELEVATIONS - OK
 PLEASE INDICATE IF BARRIER TREATMENT MEETS WITH YOUR APPROVAL - OK
 IF CHANNEL WORK IS BEING DONE, PLEASE PROVIDE CHANNEL DETAILS (HORIZONTAL
 ALIGNMENT, TYPICAL SECTIONS AND PROFILES) - PER HYDRAULICS NOT REQUIRED.
 PLEASE VERIFY ELECTRICAL SAFETY NOTE IS NOT REQUIRED - VERIFIED
 PLEASE VERIFY TOPPING MATERIAL FOR FILL BETWEEN BARRIERS THAT SEPARATE R/C
 FROM WB MAINLINE. ARE THE FILL HEIGHTS BETWEEN BARRIERS ACCURATE?

DESIGNER NOTES:
 STRUCTURE WILL BE SINGLE SPAN WITH HIGHWALL ABUTMENTS BUILT
 PARALLEL AT AZ 7° 33' 29" (10° SKED TO EB/PC LINE).
 AVAILABLE BEAM DEPTH = 2.14 m BASED ON MEETING EXISTING LOW BEAM
 ELEVATION OF 268.3.
 WEATHERING STEEL WILL BE USED. OHV BARS ARE REQUIRED. CLEANING OF
 SUBSTRUCTURE CONCRETE IS NOT REQUIRED.
 INVESTIGATE USING HYBRID GIDER WITH HPS TOW STEEL.
 TRAFFIC IS TO BE MAINTAINED ON THE EXISTING N STRUCTURE AND PROPOSED
 STRUCTURE THROUGHOUT THE USE OF STAGED CONSTRUCTION.
 AS BUILT PLANS ARE AVAILABLE IN DESIGN FOLDER.
 UTILITY TO BE CARRIED ON THE STRUCTURE WILL BE A 3 MPS TRAFFIC SIGNAL
 CONDUIT IN THE NORTH FASCIA BARRIER.
 WATER ELEVATIONS AT APPROACH: OHV= 268.352, OHV= 266.62, OW= 265.52,
 LW= 264.02.
 D.E.C. CONSTRUCTION RESTRICTIONS ARE IN STREAM WORK 4/01 THRU 5/15.

FOUNDATION NOTES: PRELIMINARY FOUNDATION RECOMMENDATION 1/24/02
 ESTIMATED SCOUR: = 4.5 m TO ELEVATION 260.5 m
 USE 356 mm (14.0") TAPERED CIP PILES, ITEM 551.114. MAX. ALLOWABLE LOAD OF 41
 kN PER PILE DRIVEN TO ACHIEVE A CAPACITY OF 900 kN. USE 3 GAUGE PILES TAP
 33 mm PER M.

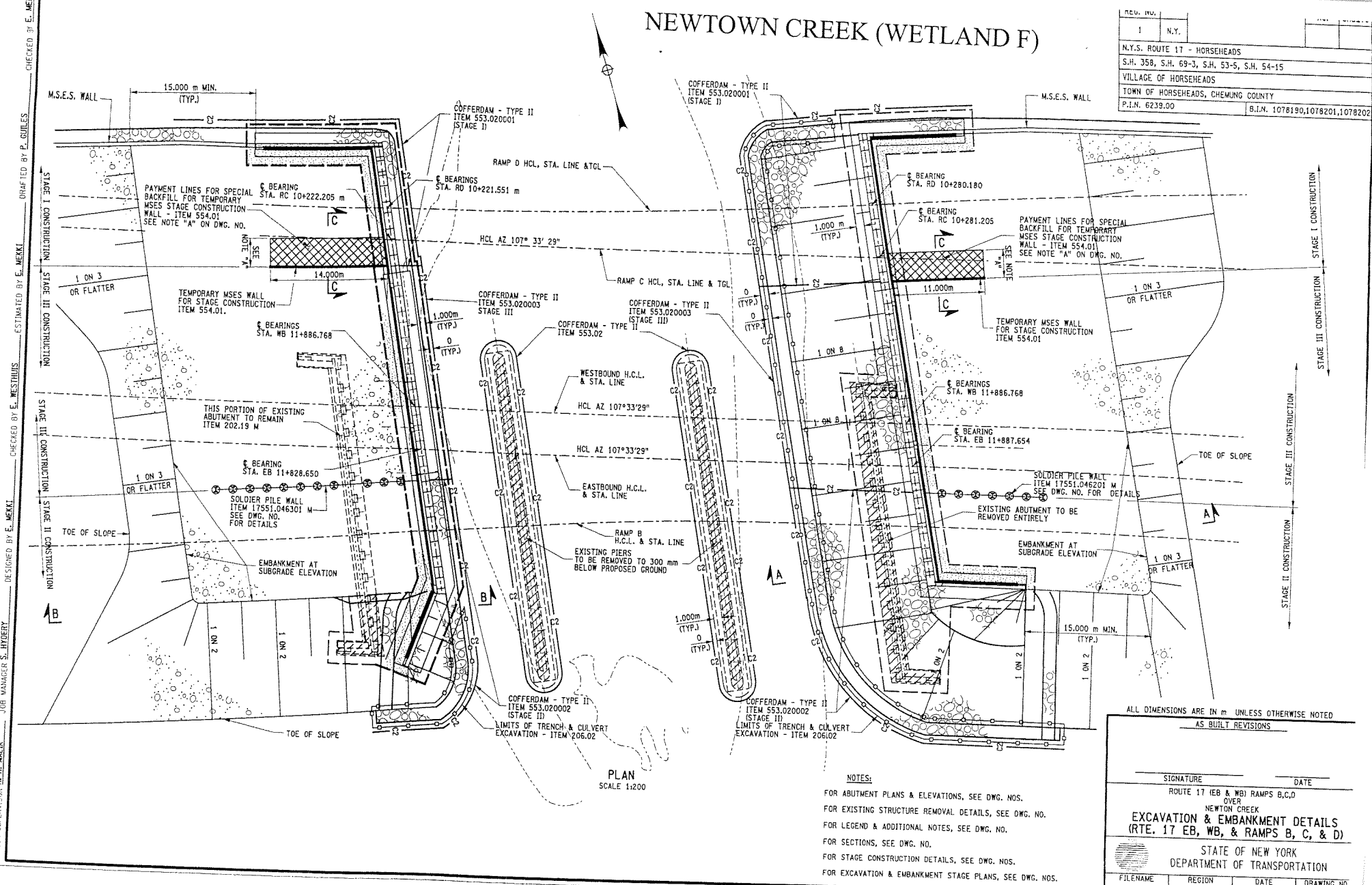
DESIGN APPROVAL
 P.S. & E. DATE: 05/01/03
 APPROVED
 DATE: _____
 PRELIMINARY STRUCTURE PLAN
 P.I.N. NO. 6239.00.122.71
 DESIGNED BY: G. CHRISTIAN

Note:
 Armor stone will be placed within Newtown Creek for protection of the bridge foundations and abutments. Approximately 1035-cubic meters (1353-cubic yards) of stone will be placed at the bridge. This includes approximately 82-cm (107 cy) and 953 cm (1246 cy) of armor stone on the west and east abutments, respectively. The armor stone placement will include approximately 1.2-cm per linear meter (0.48-cy per linear foot) on the west side of the Creek and approximately 13.05-cm per linear meter (5.2-cy per linear foot) on the east side of the Creek. Note that this volume includes armor stone that will be placed above the ordinary high water level, and thus the volumes below water level will be less.

NEW YORK STATE DEPARTMENT OF
 TRANSPORTATION - PIN 6239.00
 D/A Processing No. 2002-01646(1)
 Chemung County, New York
 Quad: HORSEHEADS
 Sheet 7 of 29

NEWTOWN CREEK (WETLAND F)

REV. NO.	1	N.Y.
S.H. 358, S.H. 69-3, S.H. 53-5, S.H. 54-15		
VILLAGE OF HORSEHEADS		
TOWN OF HORSEHEADS, CHEMUNG COUNTY		
P.I.N. 6239.00	B.I.N. 1078190,1078201,1078202	



NOTES:
 FOR ABUTMENT PLANS & ELEVATIONS, SEE DWG. NOS.
 FOR EXISTING STRUCTURE REMOVAL DETAILS, SEE DWG. NO.
 FOR LEGEND & ADDITIONAL NOTES, SEE DWG. NO.
 FOR SECTIONS, SEE DWG. NO.
 FOR STAGE CONSTRUCTION DETAILS, SEE DWG. NOS.
 FOR EXCAVATION & EMBANKMENT STAGE PLANS, SEE DWG. NOS.

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED
 AS BUILT REVISIONS

SIGNATURE	DATE
ROUTE 17 (EB & WB) RAMPS B,C,D OVER NEWTOWN CREEK EXCAVATION & EMBANKMENT DETAILS (RTE. 17 EB, WB, & RAMPS B, C, & D)	
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION	
FILENAME 623900AB.E18	REGION 6
DATE 1/03	DRAWING NO. 15

* 0.07ac. temporary impact to wetland F
 from cofferdam installation
 * 0.07 ac. area to be restored by
 pier removal

NEW YORK STATE DEPARTMENT OF
 TRANSPORTATION - P.I.N 6239.00
 D/A Processing No. 2002-01646(1)
 Chemung County, New York
 Quad: HORSEHEADS
 Sheet 9 of 29

FILE NAME: H:\CADD\980818\Horseheads\2002-2-26\623900AB.dwg
 DATE: 02/27/2003
 USER: gmg

DESIGN SUPERVISOR: A. H. MALIK
 JOB MANAGER: S. HYDERY
 DESIGNED BY: E. MEKTI
 CHECKED BY: E. MEKTI
 ESTIMATED BY: E. MEKTI
 DRAFTED BY: P. GILES
 CHECKED BY: E. MEKTI

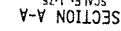
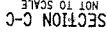
DRAFTED BY K. FERGUSON CHECKED BY E. N

CHECKED BY E. WESTHUIS

DESIGNED BY E. MEKKI

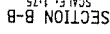
JOB MANAGER S. HYDERY

SUPERVISOR A.H. MALIK

SECTION A-A
SCALE: 1/2" = 1'-0"

SECTION C-C
NOT TO SCALE

PRECAST MAY BE CAST-IN-PLACE OR
 EL. 271.800±
 300
 M.S.E. OPTION SELECTED
 BY CONTRACTOR
 UNREINFORCED LEVELING PAD
 INCLUDED IN M.S.E. ITEM
 EL. 267.000± APPROX. EXIST




SECTION B-B

NOTES:

NOTES:

FOR EXCAVATION & EMBANKMENT PLAN, SEE DWG. NO.
FOR LOCATION OF SECTIONS, SEE DWG. NO.
FOR TEMPORARY MSE WALL DETAILS, SEE DWG. NO.
FOR SOLDIER PILE WALL DETAILS, SEE DWG. NO.

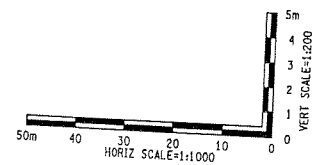
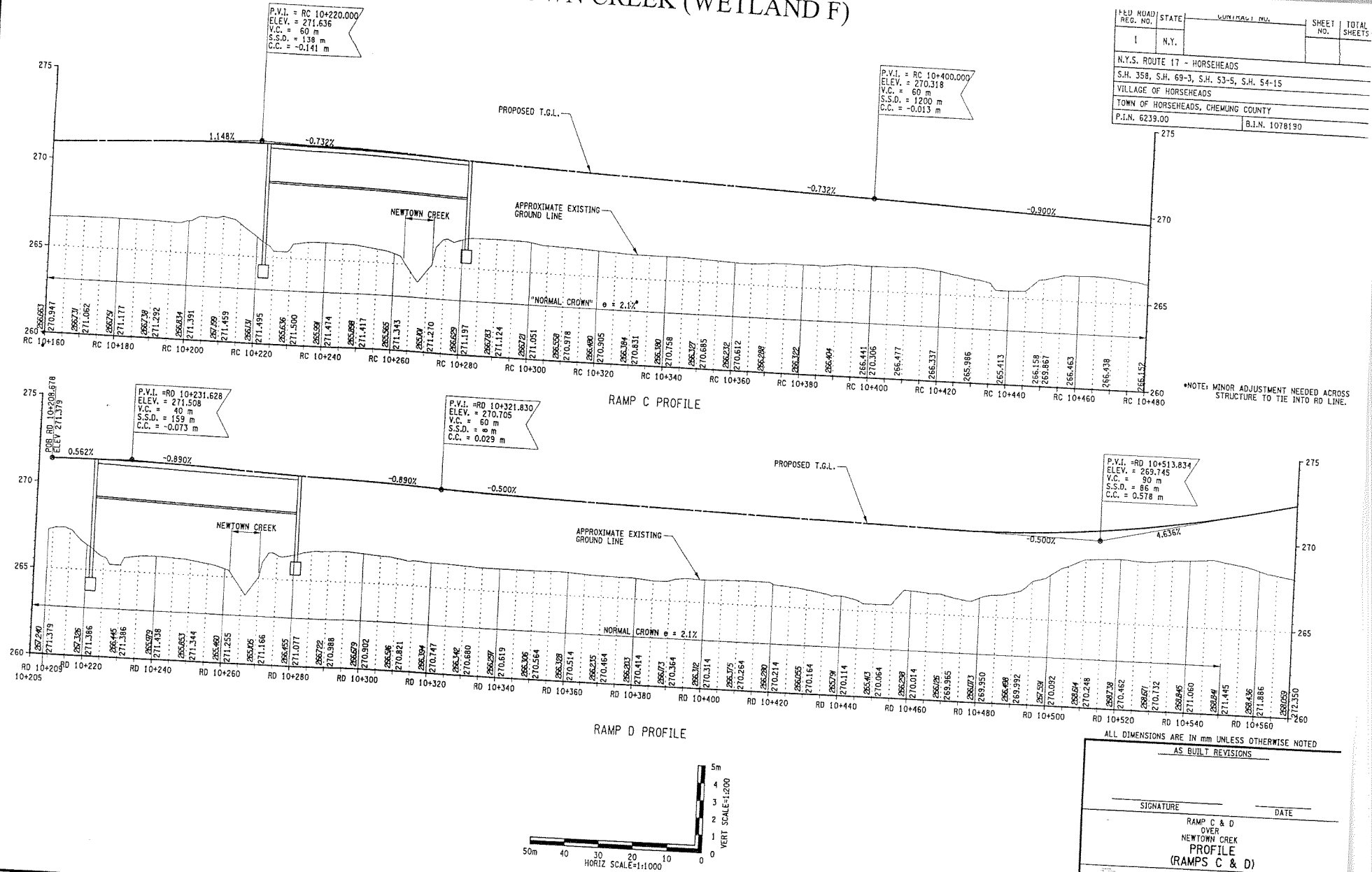
LEGEND

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DEPARTMENT OF TRANSPORTATION							
STATE OF NEW YORK							
(RTE. 17 EB, WB, & RAMPS B, C, & D)							
EXCAVATION SECTIONS							
NEWTON CREEK							
OVER							
ROUTE 17 EB & WB RAMPS B,C,D							
SIGNATURE _____							
DATE _____							
AS BUILT REVISIONS _____							
ALL DIMENSIONS ARE IN UNLESS OTHERWISE NOTED							

REG. NO.	1	N.Y.
N.Y.S. ROUTE - HORSEHEADS		
S.H. 53B, S.M. 69-3; S.H. 53-5; S.H. 54-15		
VILLAGE OF HORSEHEADS		
TOWN OF HORSEHEADS, CHEMUNG COUNTY		
P.L.N.	65239.00	B.T.N. 107819.00, 107820.1, 107822.0

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DATE/TIME = 02/27/2003
USER = Craig

DESIGNED BY E. TIMPERLAKE
CHECKED BY E.
JOB MANAGER S. HYBERRY
DESIGN SUPERVISOR A.H. MALIK
DRAFTED BY G. BUCKLEY
CHECKED BY E.

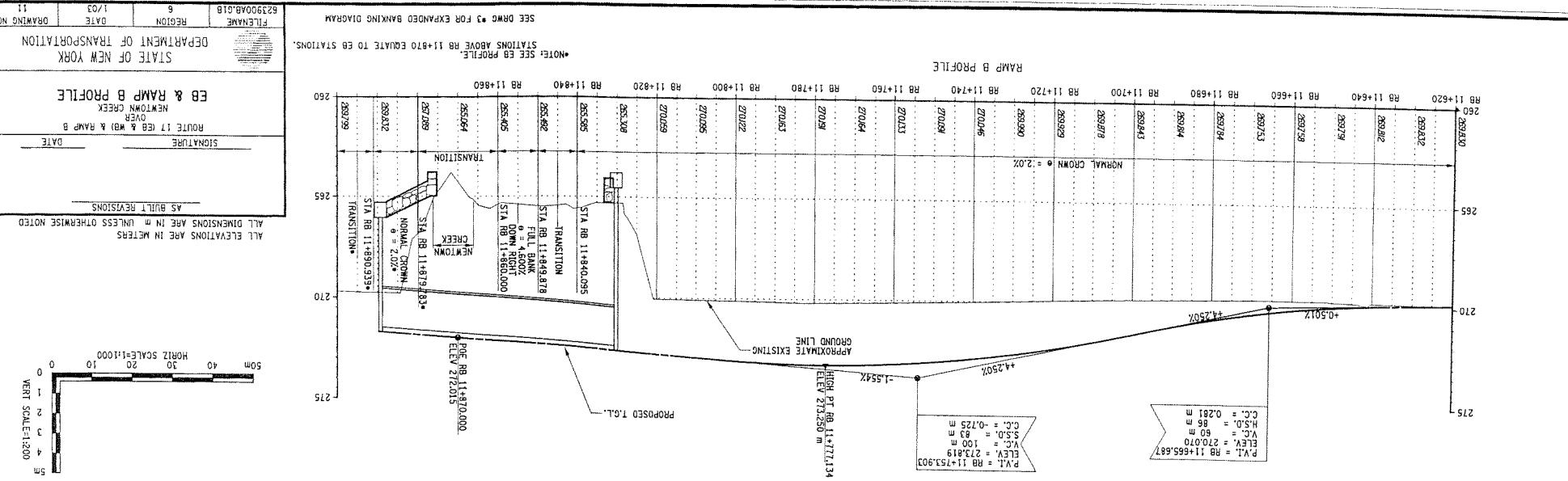
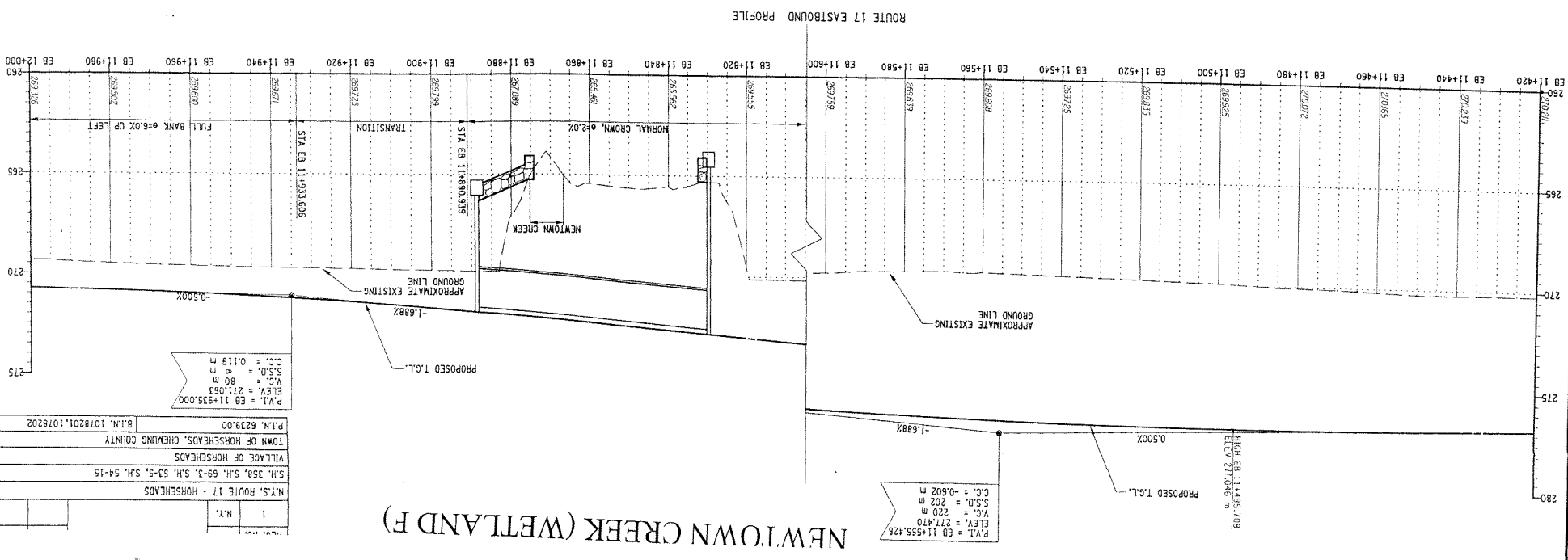
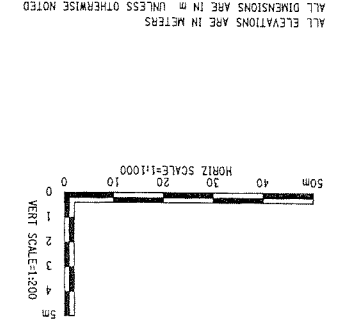


NEW YORK STATE DEPARTMENT OF
TRANSPORTATION - PIN 6239.00
D/A Processing No. 2002-01646(1)
Chemung County, New York
Quad: HORSEHEADS
Sheet 11 of 29

SIGNATURE		DATE	
RAMP C & D OVER NEWTOWN CREEK PROFILE (RAMPS C & D)			
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION			
FILENAME 623900BB.G1B	REGION 6	DATE 1/03	DRAWING NO. 8

NEW YORK STATE DEPARTMENT OF
TRANSPORTATION - PIN 6239.00
D/A Processing No. 2002-01646(1)
Chemung County, New York
Quad: HORSEHEADS
Sheet 12 of 29

FILE NAME	623900A.dwg
REGION	6
DATE	1/03
DRAWING NO	11
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION	
EB & RAMP B PROFILE	
ROUTE 17 EB & WB & RAMP B OVER NEWTOWN CREEK	
SIGNATURE	DATE
AS BUILT REVISIONS	

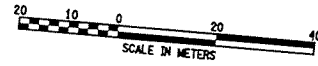


BEAVER BROOK (WETLAND D&G)

DRAINAGE STRUCTURE NUMBERS	
#	DESCRIPTION
1 - 100	EXISTING STRUCTURES
200 - 299	NEW STRUCTURES IN AT GRADE OR EXCAVATION (CUT) AREAS
400 - 599	NEW STRUCTURES ON NEW ALIGNMENT OR IN EMBANKMENT (FILL) AREAS
700 - 799	NEW CULVERTS / END SECTIONS
800 - 899	EXISTING CULVERTS / END SECTIONS
900 - 999	TEMPORARY DRAINAGE PROVISIONS

FED. ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.			
N.Y.S. ROUTE 17 - HORSEHEADS				
S.H. 358, S.H. 5162, S.H. 53-5, S.H. 54-15				
VILLAGE OF HORSEHEADS				
TOWN OF HORSEHEADS, COUNTY OF CHEMUNG				
P.I.N. 6239.00			B.J.N.	

NEW YORK STATE DEPARTMENT OF
TRANSPORTATION - PIN 6239.00
D/A Processing No. 2002-01646(1)
Chemung County, New York
Quad: HORSEHEADS
Sheet 13 of 29



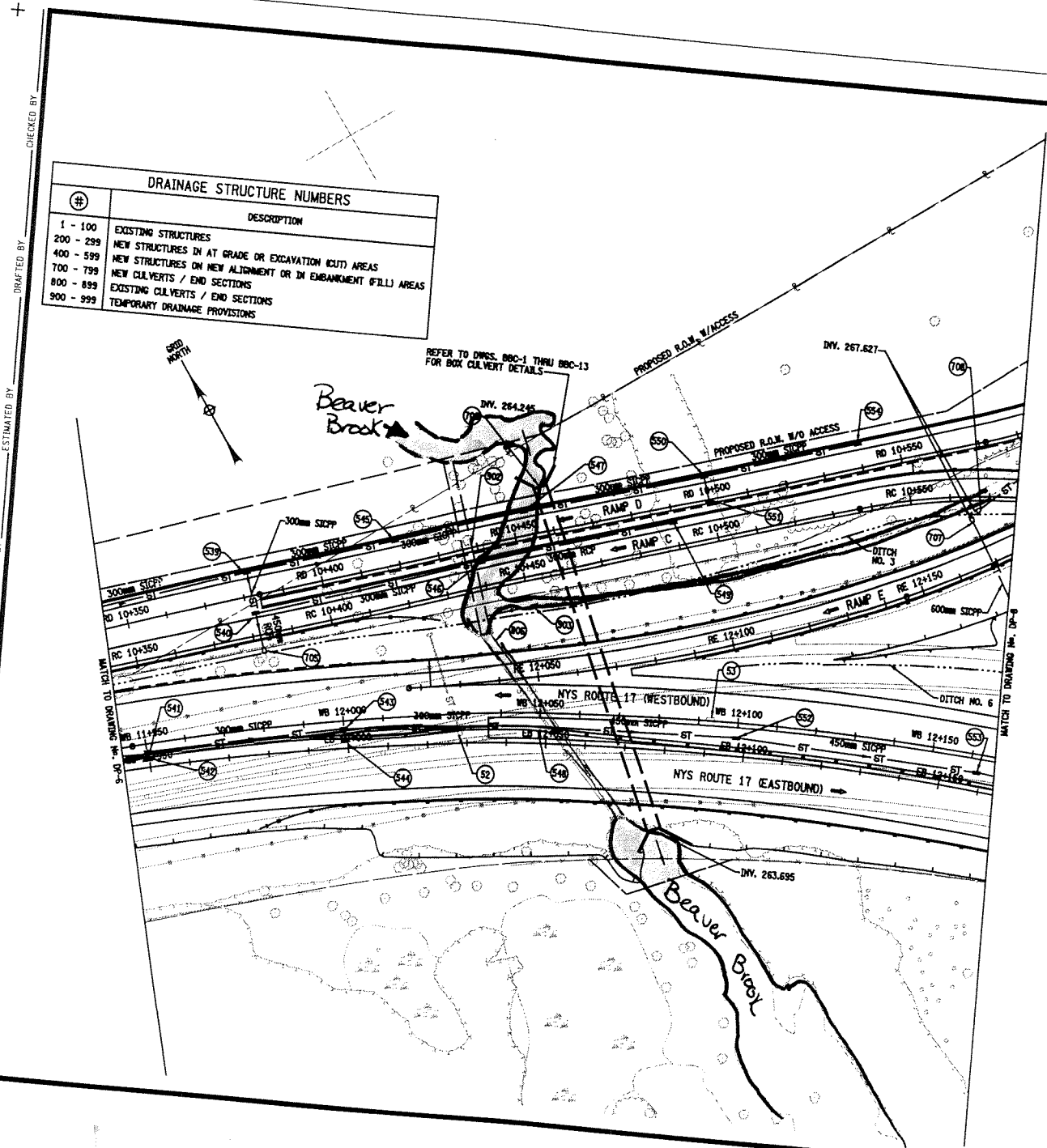
ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE NOTED
AS BUILT REVISIONS

SIGNATURE _____ DATE _____

DRAINAGE & UTILITY PLAN

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

FILENAME: 6239006.DRW REGION: 6 DATE: JAN 2003 DRAWING NO.: DP-1



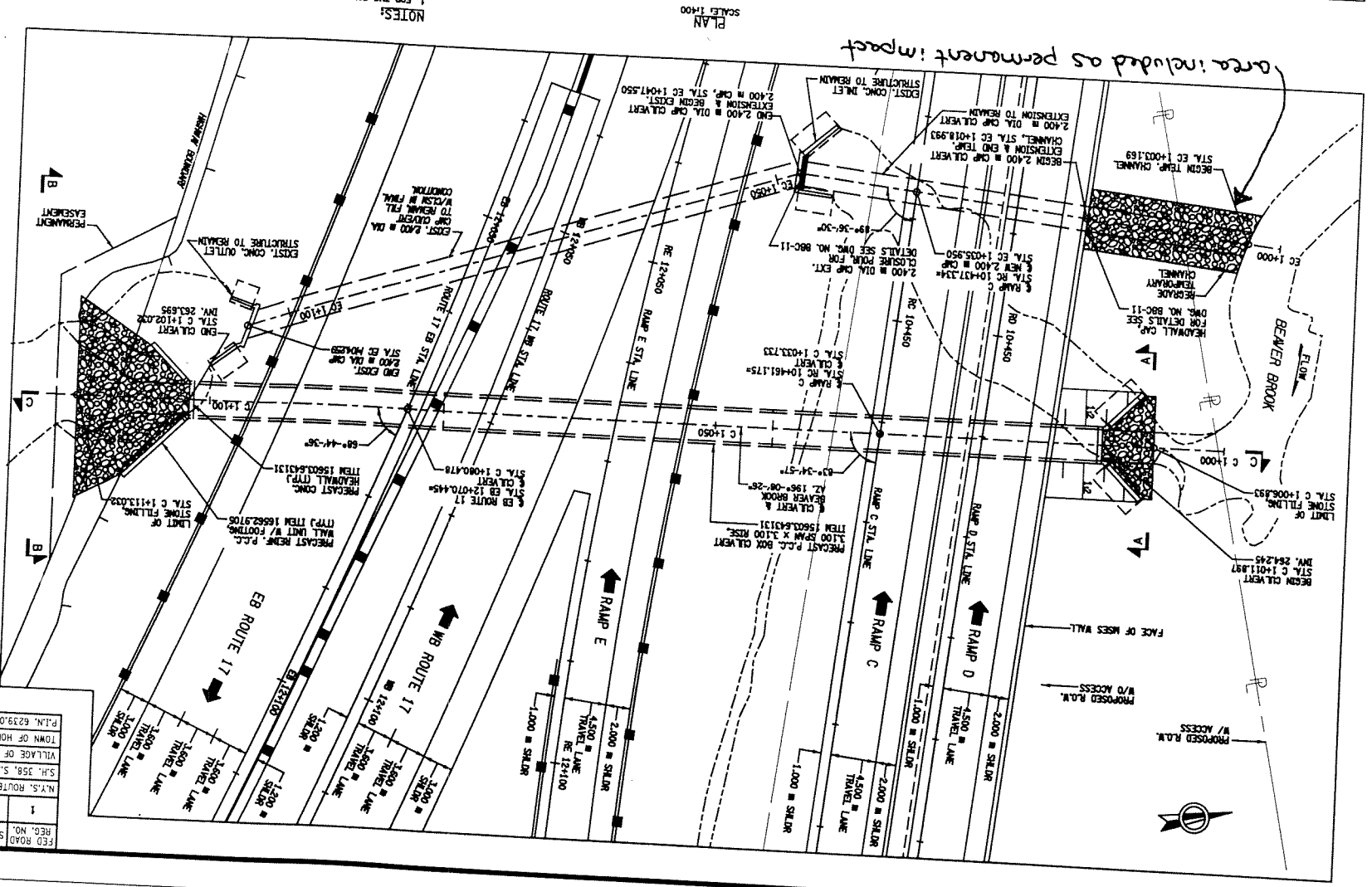
DESIGNED BY _____ CHECKED BY _____
DRAFTED BY _____ ESTIMATED BY _____
JOB MANAGER _____
DESIGN SUPERVISOR _____

HYDRAULIC DATA			
BRIDGE AREA	1119	HP	DESIGN
REQUIREMENT INTERVAL	100	FEET	DESIGN
PEAK DISCHARGE	2.12	CFS	DESIGN
HIGH WATER ELEVATION AT	266.50	FEET	DESIGN
POINT OF MAX. BACKWATER	269.24	FEET	DESIGN

NEW YORK STATE DEPARTMENT OF
 TRANSPORTATION - PIN 6239.02
 D/A Processing No. 2002-01646(1)
 Chemung County, New York
 Quad: HORSEHEADS
 Sheet 14 of 29

- NOTES:
- FOR THE FOLLOWING SEE:
 - A. ELEVATIONS A-A & B-B
 - B. GENERAL NOTES
 - C. SECTION C-C
 - D. CROWN/VALLEY/REMOVAL
 - E. MISCELLANEOUS DETAILS
 - F. BOX CULVERT ELEVATION & DETAILS
 - G. BOX CULVERT ELEVATION & DETAILS
 - H. BOX CULVERT ELEVATION & DETAILS
 - ITEM 620.04 - BEDDING
 - ITEM 620.04 - BEDDING
- LEGEND:
- STONE FILLING - BEDDING
 - ITEM 620.04

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 BEAVER BROOK BOX CULVERT
 GENERAL PLAN
 SIGNATURE: _____
 DATE: _____
 AS BUILT REVISIONS: _____
 ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE NOTED



FED. ROAD	STATE	1	N.Y.
REG. NO.	CONTRACT NO.	SHEET NO. 707	
N.Y.S. ROUTE 17 - HORSEHEADS			
S.H. 358, S.H. 5182, S.H. 53-5, S.H. 54-15			
VILLAGE OF HORSEHEADS			
TOWN OF HORSEHEADS, COUNTY OF CHEMUNG			
P.L.N. 6239.00			

BEAVER BROOK (WETLAND D&G)

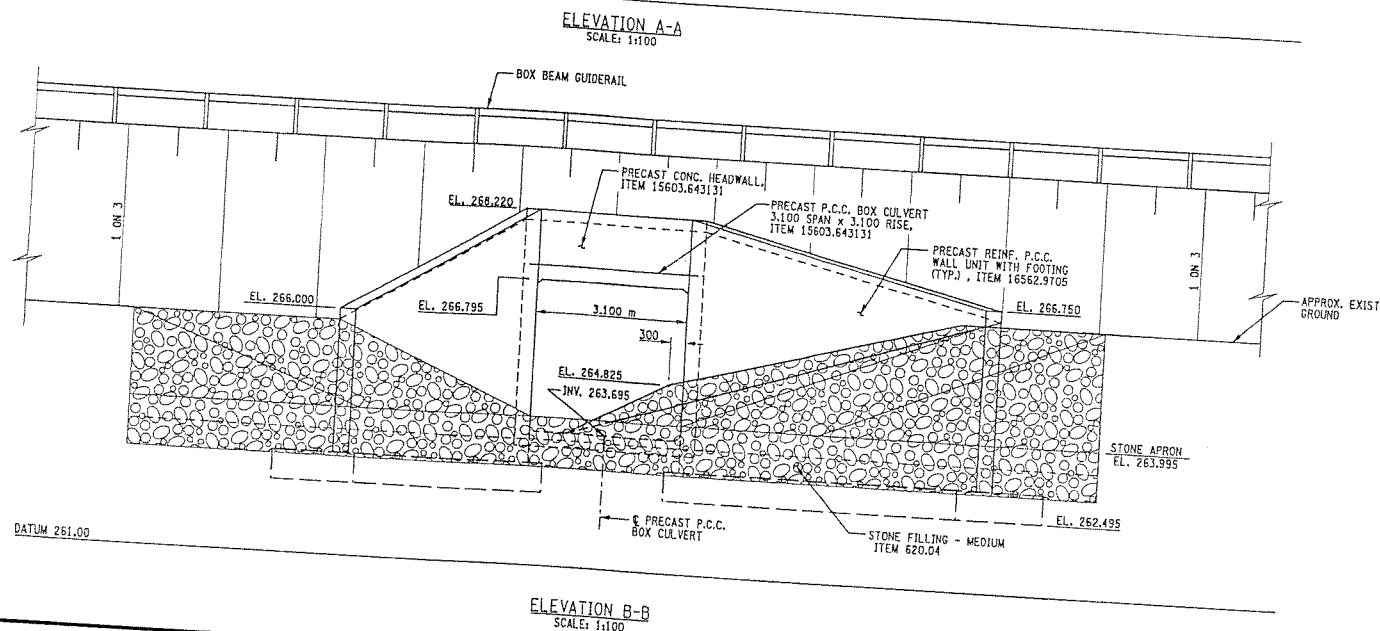
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DATE/TIME = 03/27/2003
USER = Craig
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 DATE/TIME = 03/27/2003
 USER = Gung
 DESIGN SUPERVISOR _____ JOB MANAGER _____
 _____ DESIGNED BY _____ CHECKED BY _____ ESTIMATED BY _____ DRAFTED BY _____
 _____ CHECKED BY _____



1. FOR THE FOLLOWING SEE:
- | | |
|------------------------------------|------------------|
| A. LOCATION OF ELEVATION A-A & B-B | DWG. NO. |
| B. GENERAL NOTES | BBC-1 |
| C. LONGITUDINAL SECTION | BBC-3 |
| D. EXCAVATION/REMOVAL | BBC-4 |
| E. BACKFILL PLAN | BBC-5 THRU BBC-8 |
| F. BOX CURB/VERT. PL. SECTIONS | BBC-9 & BBC-10 |
| G. BOX CURB/VERT. ELEV. & DETAILS | BBC-12 |
| H. MSE WALL ELEVATION & DETAILS | BBC-13 |
| | RM-16 |

Note:
Ordinary High Water in Beaver Brook is
Elevation 265-m (869.4-ft.)



ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED
AS BUILT REVISIONS

SIGNATURE _____ DATE _____

BEAVER BROOK BOX CULVERT
ELEVATIONS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

1997-1998
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FILENAME
623900AA.G1

REGION
6

DATE _____

DRAWING NO.

BRC-2



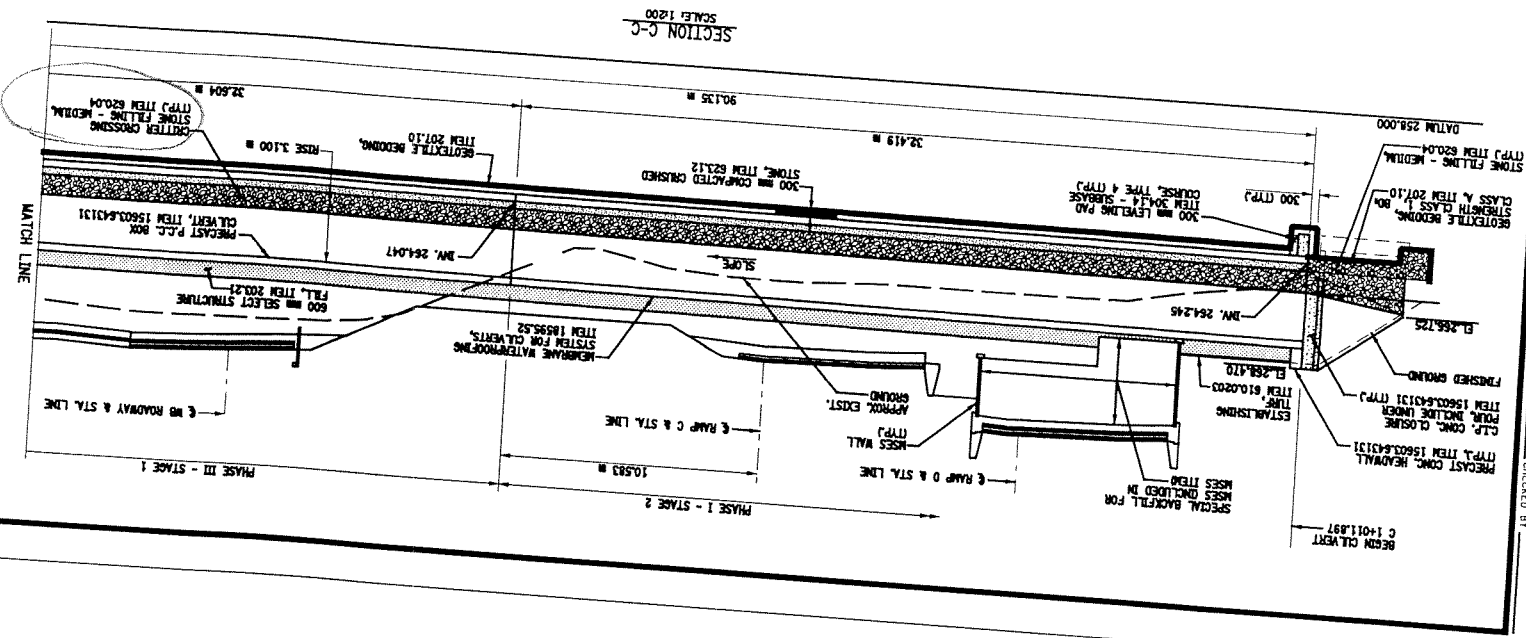
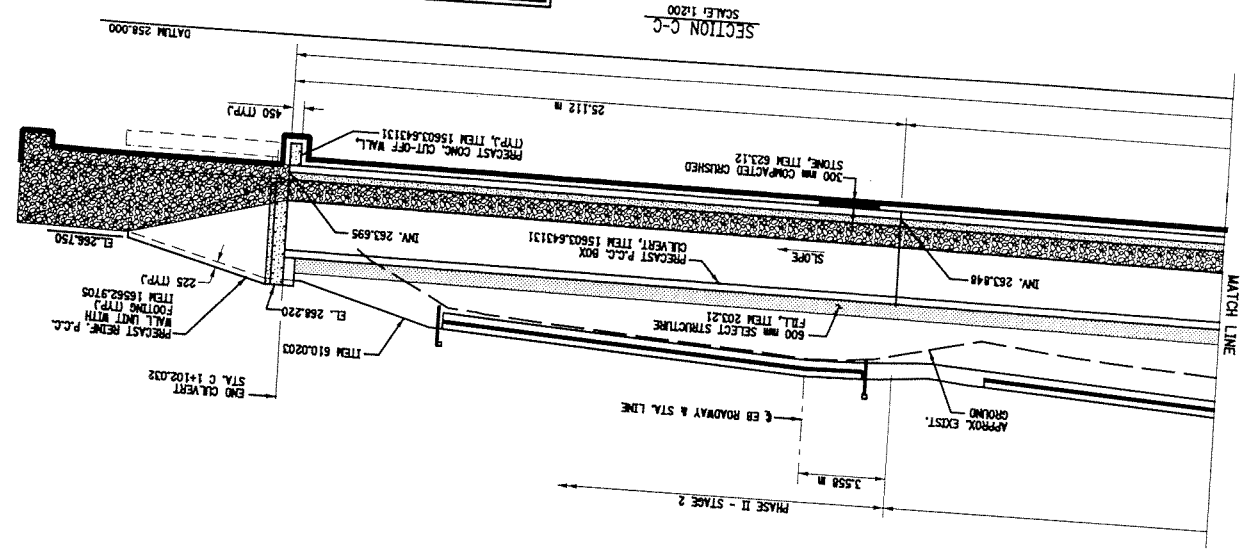
BERGMAN
associates
Engineers / Architects / Surveyors

NEW YORK STATE DEPARTMENT OF
TRANSPORTATION - PIN 6239.00
D/A Processing No. 2002-01646(1)
Chemung County, New York
Quad: HORSEHEADS
Sheet 15 of 29

DESIGN SUPERVISOR: [redacted] JOB MANAGER: [redacted] DESIGNED BY: [redacted] CHECKED BY: [redacted] ESTIMATED BY: [redacted] DRAFTED BY: [redacted] CHECKED BY: [redacted]

NEW YORK STATE DEPARTMENT OF
 TRANSPORTATION - PIN 6239.00
 D/A Processing No. 2002-01646(1)
 Chemung County, New York
 Quad: HORSEHEADS

STATE OF NEW YORK
 BEAVER BROOK BOX CULVERT
 LONGITUDINAL SECTION
 SIGNATURE: _____ DATE: _____
 AS BUILT REVISIONS
 ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE NOTED



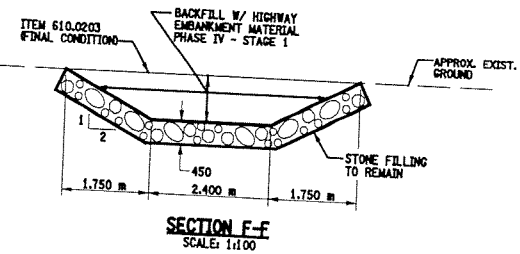
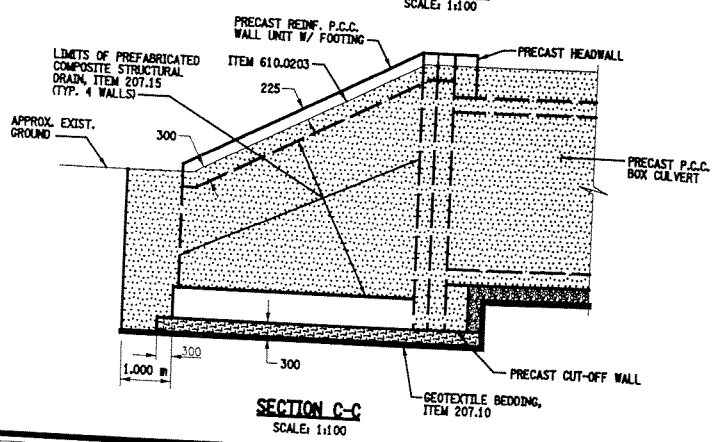
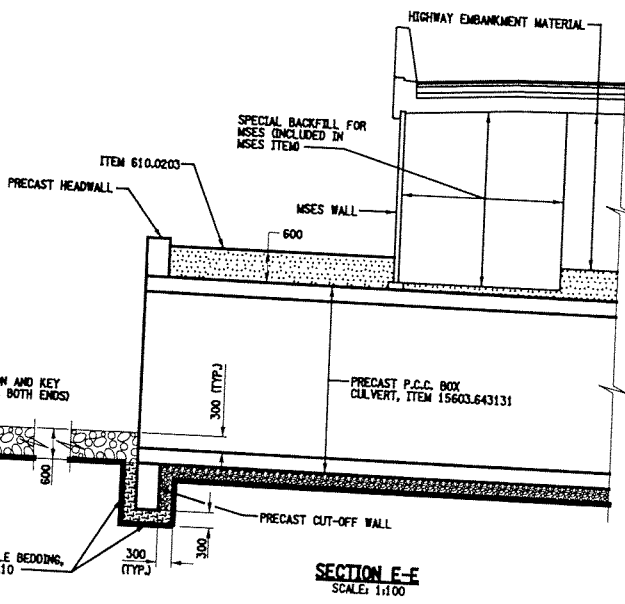
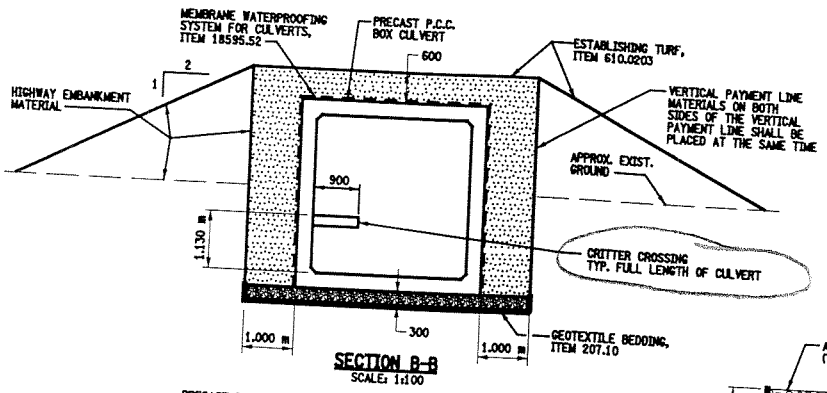
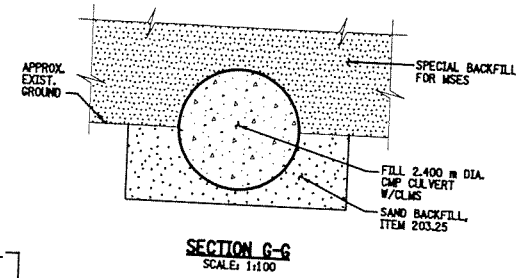
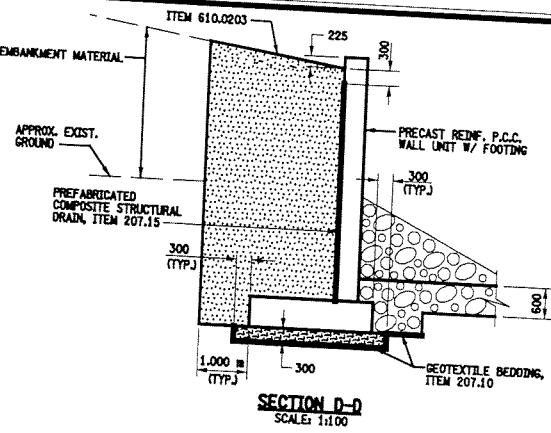
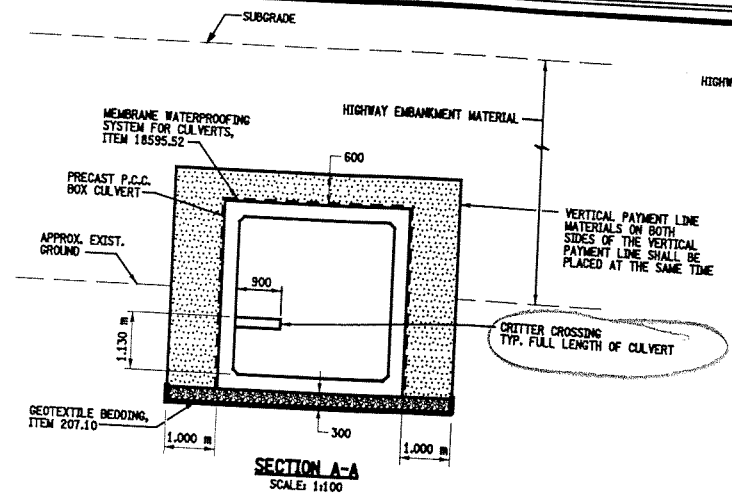
- NOTES:
1. FOR THE FOLLOWING SEE:
 - A. LOCATION OF SECTION C-C
 - B. ELEVATIONS
 - C. GENERAL NOTES
 - D. EXCAVATION/REMOVAL
 - E. BACKFILL PLAN
 - F. BACKFILL SECTIONS
 - G. BOX CULVERT PLAN & DETAILS
 - H. BOX CULVERT ELEVATION & DETAILS
 2. CONSTRUCTION PHASING AND STAGES CORRELATES WITH HIGHWAY ART DESIGNATIONS.
 - BBC-13
 - BBC-12
 - BBC-10
 - BBC-9
 - BBC-8
 - BBC-5 THRU BBC-8
 - BBC-3
 - BBC-2
 - BBC-1
 - DWG. NO.

PLN. 6239.00	BLN.
TOWN OF HORSEHEADS, COUNTY OF CHEMUNG	
VILLAGE OF HORSEHEADS	
S.H. 558, S.H. 5162, S.H. 53-S, S.H. 54-15	
N.Y.S. ROUTE 17 - HORSEHEADS	
REG. ROAD STATE	
CONTRACT NO.	
SHEET NO.	

BEAVER BROOK (WETLAND D&G)

BEAVER BROOK (WETLAND D&G)

FED. ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOT SHEE
1	N.Y.			
N.Y.S. ROUTE 17 - HORSEHEADS				
S.H. 358, S.H. 5162, S.H. 53-5, S.H. 54-15				
VILLAGE OF HORSEHEADS				
TOWN OF HORSEHEADS, COUNTY OF CHEMUNG				
P.I.N. 6239.00			B.I.N.	



NOTES:
1. FOR THE FOLLOWING SEE:
A. EXCAVATION/REMOVAL - BOC-5 THRU BOC-9
B. LOCATION OF SECTIONS A-A THRU G-G - BOC-9

- LEGEND:**
- SELECT STRUCTURE FILL ITEM 203.21, COMPACTED TO 95% OF STANDARD PROCTOR MAXIMUM DENSITY
 - COMPACTED CRUSHED STONE, ITEM 623.12
 - STONE FILLING - MEDIUM, ITEM 620.04
 - PRECAST REINF. P.C.C. WALL UNIT WITH FOOTINGS SHALL BE PLACED ON A LEVELING PAD OF ITEM 304.14 - SUBBASE COURSE, TYPE 4
 - CONTROLLED LOW STRENGTH MATERIAL (CLSM), ITEM 204.01

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED
AS BUILT REVISIONS

SIGNATURE _____ DATE _____

**BEAVER BROOK BOX CULVERT
BACKFILL SECTIONS**

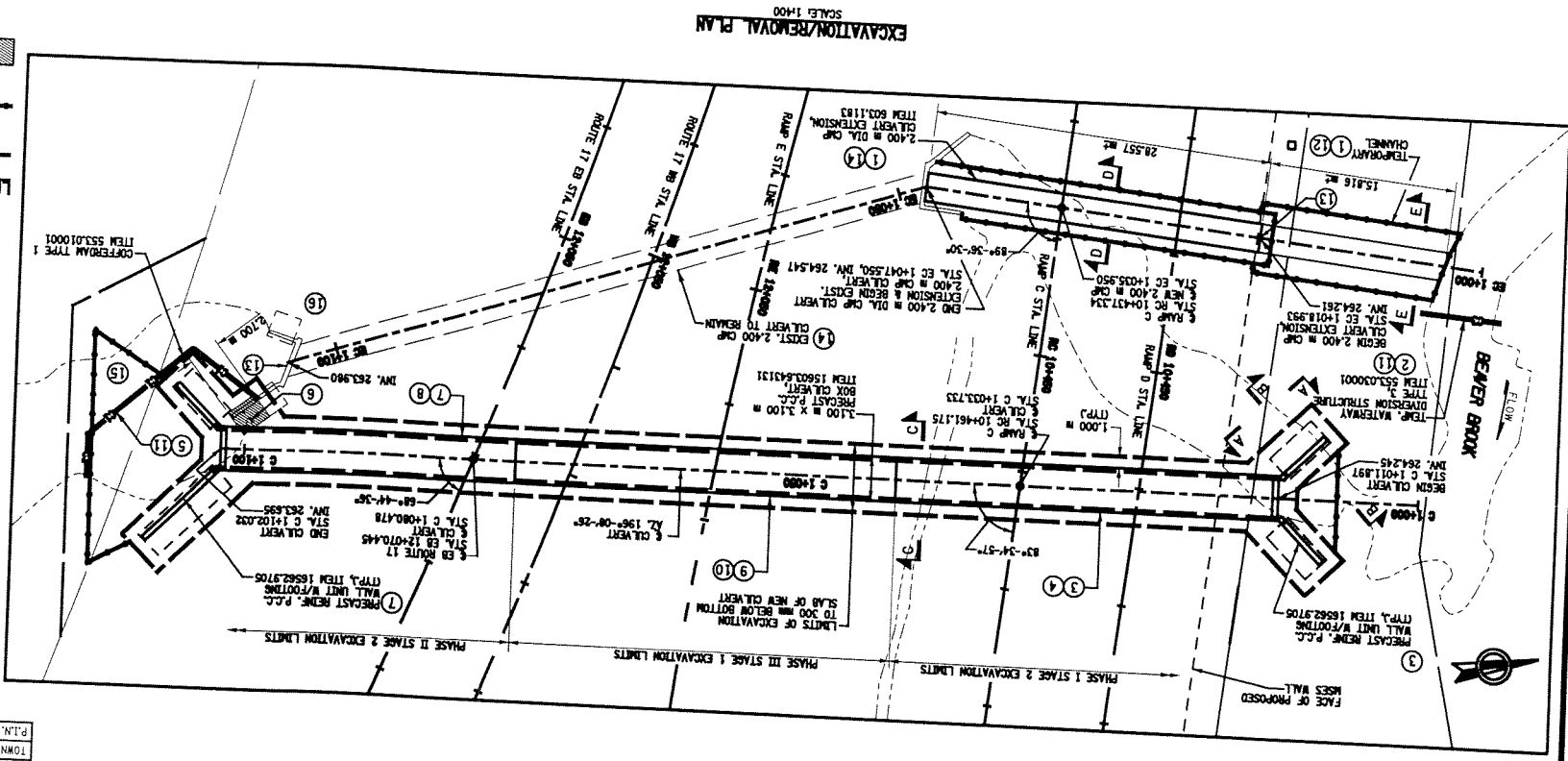
STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

FILENAME: 623900A.E1F REGION: 6 DATE: JAN 2003 DRAWING NO: BOC-10

NEW YORK STATE DEPARTMENT OF
TRANSPORTATION - PIN 6239.00
D/A Processing No. 2002-01646(1)
Chemung County, New York
Quad: HORSEHEADS
Sheet 18 of 29

BEAVER BROOK (WETLAND D&G)

REQ. NO.	STATE	N.Y.
SHEET TOTAL	CONTRACT NO.	
SHEET NO.		
SHEET		
N.Y.S. ROUTE 17 - HORSEHEADS		
VILLAGE OF HORSEHEADS		
TOWN OF HORSEHEADS, COUNTY OF CHEMUNG		
P.L.N. 6239.00		

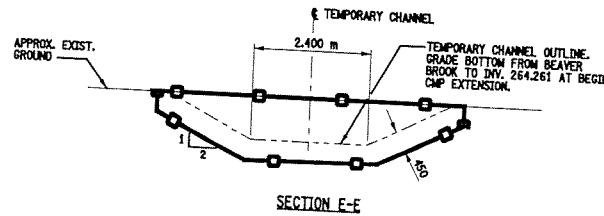
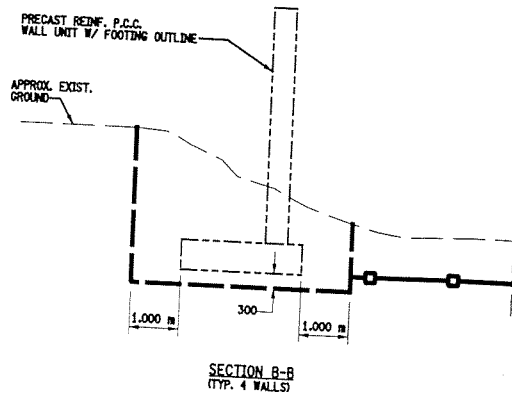
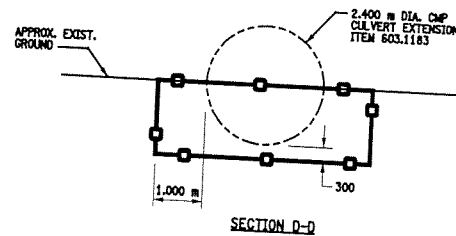
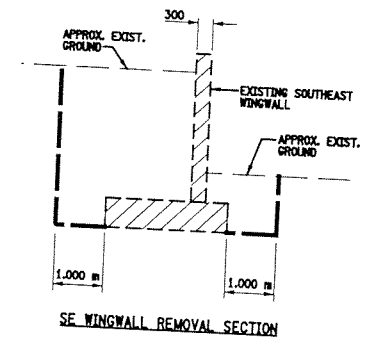
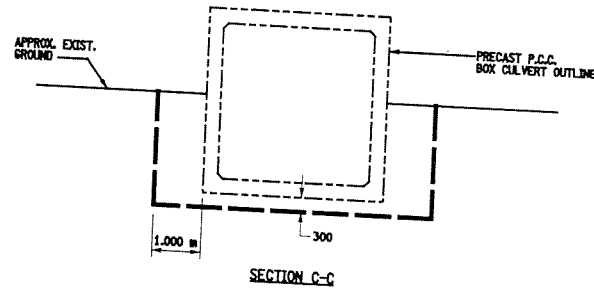
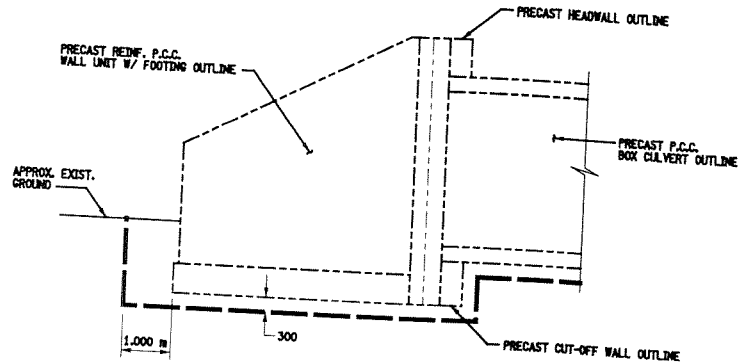


STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
BEAVER BROOK BOX CULVERT
EXCAVATION/REMOVAL PLAN
SIGNATURE _____ DATE _____
AS BUILT REVISIONS

- LEGEND
- INDICATES LIMITS OF EXISTING SUBSTRUCTURES.
 - INDICATES LIMITS OF EXISTING WATERWAY DIVERSION STRUCTURE TYPE 3, ITEM 553.030001.
 - INDICATES LIMITS OF EXISTING WATERWAY DIVERSION STRUCTURE TYPE 3, ITEM 553.030001.
 - INDICATES PAYMENT LINES FOR TRENCH AND CULVERT EXCAVATION, ITEM 206.01.
 - INDICATES PAYMENT LINES FOR STRUCTURES EXCAVATION, ITEM 206.01.
 - INDICATES LIMITS OF EXISTING CULVERT REMOVAL, ITEM 202.15.
 - INDICATES LIMITS OF EXISTING TRENCH AND CULVERT EXCAVATION, ITEM 206.04.
 - INDICATES LIMITS OF EXISTING SUBSTRUCTURES.
 - INDICATES LIMITS OF EXISTING WATERWAY DIVERSION STRUCTURE TYPE 3, ITEM 553.030001.
 - INDICATES LIMITS OF EXISTING WATERWAY DIVERSION STRUCTURE TYPE 3, ITEM 553.030001.
- NOTES
- FOR THE FOLLOWING SEE:
A. GENERAL NOTES
B. EXCAVATION ELEVATIONS
C. EXCAVATION ELEVATIONS
D. BACKFILL PLAN
E. BACKFILL PLAN
F. BACKFILL PLAN
G. EXCAVATION ELEVATIONS
H. BOX CULVERT ELEVATION & DETAILS
I. BOX CULVERT ELEVATION & DETAILS
J. BOX CULVERT ELEVATION & DETAILS
K. BOX CULVERT ELEVATION & DETAILS
L. BOX CULVERT ELEVATION & DETAILS
M. BOX CULVERT ELEVATION & DETAILS
N. BOX CULVERT ELEVATION & DETAILS
O. BOX CULVERT ELEVATION & DETAILS
P. BOX CULVERT ELEVATION & DETAILS
Q. BOX CULVERT ELEVATION & DETAILS
R. BOX CULVERT ELEVATION & DETAILS
S. BOX CULVERT ELEVATION & DETAILS
T. BOX CULVERT ELEVATION & DETAILS
U. BOX CULVERT ELEVATION & DETAILS
V. BOX CULVERT ELEVATION & DETAILS
W. BOX CULVERT ELEVATION & DETAILS
X. BOX CULVERT ELEVATION & DETAILS
Y. BOX CULVERT ELEVATION & DETAILS
Z. BOX CULVERT ELEVATION & DETAILS

- CONSTRUCTION SEQUENCE
- EXCAVATE AND INSTALL TEMPORARY CHANNEL ON NORTH END OF EXIST. 2,400 M DIA CULVERT.
 - ACROSS BEAVER BROOK DIVERSION STRUCTURE.
 - EXCAVATE AND INSTALL PRECAST P.C.C. BOX.
 - PLACE BACKFILL TO NEW ROADWAY GRADE (SEE BACKFILL).
 - INSTALL CORFBAR AT SOUTH END OF NEW CULVERT.
 - SOUTHEAST CULVERT WINDOW AND FOOTING.
 - EXCAVATE AND INSTALL PRECAST P.C.C. BOX.
 - PLACE BACKFILL TO NEW ROADWAY GRADE (SEE BACKFILL PLAN).
 - CULVERT AND WALL UNITS.
 - EXCAVATE AND INSTALL PRECAST P.C.C. BOX.
 - PLACE BACKFILL TO EXISTING ROADWAY GRADE (SEE BACKFILL PLAN DRAWING NO. BOC-10).
 - CULVERT AND WALL UNITS.
 - EXCAVATE AND INSTALL PRECAST P.C.C. BOX.
 - PLACE BACKFILL TO EXISTING ROADWAY GRADE (SEE BACKFILL PLAN DRAWING NO. BOC-10).
 - COMPLETE SOUTH APPROX EXCAVATION AND INSTALL REMAINING STONE FILLING.
 - GRADE SOUTH APPROX EXCAVATION.

FED. ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.			
N.Y.S. ROUTE 17 - HORSEHEADS				
S.H. 350, S.H. 5162, S.H. 53-5, S.H. 54-15				
VILLAGE OF HORSEHEADS				
TOWN OF HORSEHEADS, COUNTY OF CHEMUNG				
P.I.N. 6239.00			B.J.N.	



- NOTES:**
- FOR THE FOLLOWING SEE:
 - A. GENERAL NOTES: --- BNC-3
 - B. LOCATION OF SECTIONS A-A THRU E-E: --- BNC-5
 - C. EXCAVATION/REMOVAL ELEVATIONS: --- BNC-7 & BNC-8
 - D. BACKFILL PLAN & SECTIONS: --- BNC-9 & BNC-10
 - E. BOX CULVERT PLAN & DETAILS: --- BNC-12
 - F. BOX CULVERT ELEVATION & DETAILS: --- BNC-13

LEGEND:

- INDICATES PAYMENT LINES FOR STRUCTURE EXCAVATION, ITEM 206.01
- INDICATES PAYMENT LINES FOR TRENCH & CULVERT EXCAVATION, ITEM 206.04
- INDICATES LIMITS OF EXISTING CULVERT WINGWALL REMOVAL, ITEM 202.19, REMOVAL OF SUBSTRUCTURES.

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED
AS BUILT REVISIONS

SIGNATURE _____ DATE _____

BEAVER BROOK BOX CULVERT
EXCAVATION SECTIONS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

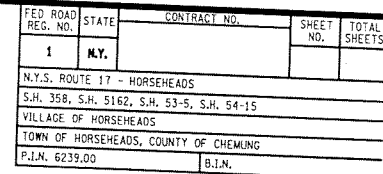


FILENAME: 623900AAE10 REGION: 6 DATE: JAN 2003 DRAWING NO.: BNC-6

BERGMANN
associates
Engineers / Architects / Surveyors




EXCAVATION SECTIONS
NO SCALE

PROPOSED CULVERT IN RAMP C
(BISECTS WETLAND B AND MITIGATION AREA)

[illegible]

1. FOR THE FOLLOWING SEE:

	DWG. NO.
A. GENERAL NOTES	BBC-3
B. CULVERT DETAILS	RCC-2
C. DRAINAGE INTERCEPTOR	RCC-3
D. STANDARD DETAILS	CSD-1

-  — STONE FILLING - MEDIUM
ITEM 820.04
-  — COMPACTED CRUSHED STONE, ITEM 823.12,
CONSISTING OF A MIXTURE OF 50% STONE SIZE
DESIGNATION 1 AND 50% STONE SIZE DESIGNATION 2.
-  — PRECAST REINF. P.C.C. WALL UNIT
WITH FOOTINGS SHALL BE PLACED
ON A LEVELING - ITEM 304.14 -
SUBBASE COURSE, TYPE

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE _____ DATE _____

GENERAL PLAN & ELEVATION
RAMP C BOX CULVERT

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

FILENAME: 623900A4.GIA REGION: 6 DATE: JAN 2003 DRAWING NO.: RCC-1

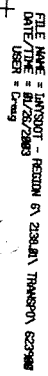
PROPOSED CULVERT IN RAMP C
(BISECTS WETLAND B AND MITIGATION AREA)

Quad: HORSEHEADS

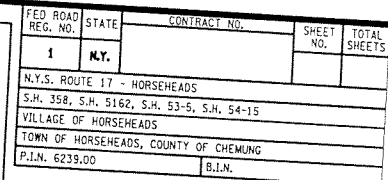
Chemung County, New York






D/A Processing No. 2002-01646(1)

TRANSPORTATION - PIN 6239.00



CHECKED BY

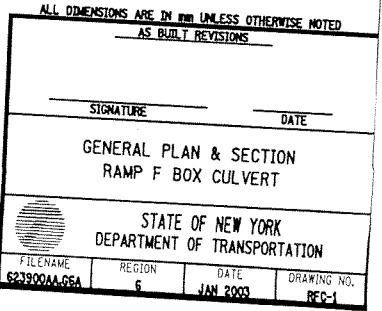


-  - STONE FILLING - MEDIM,
ITEM 620.04
-  - COMPACTED CRUSHED STONE, ITEM 623.12,
- CONSISTING A MIXTURE OF 50% STONE
SIZE DESIGNATION 1 AND 50% STONE SIZE
DESIGNATION 2.
-  - PRECAST REINF. P.C.C. WALL UNIT
WITH FOOTINGS SHALL BE PLACED
ON A LEVELING PAD OF, ITEM 304.14 -
SUBBASE COURSE, TYPE 4
-  - INDICATES GEOSYNTHETIC REINFORCED
EARTH SYSTEM (GRES, ITEM 17554.9620)
-  - INDICATES INTERIM STEEL SHEETING
ITEM 552.15

1. FOR THE FOLLOWING SEE:

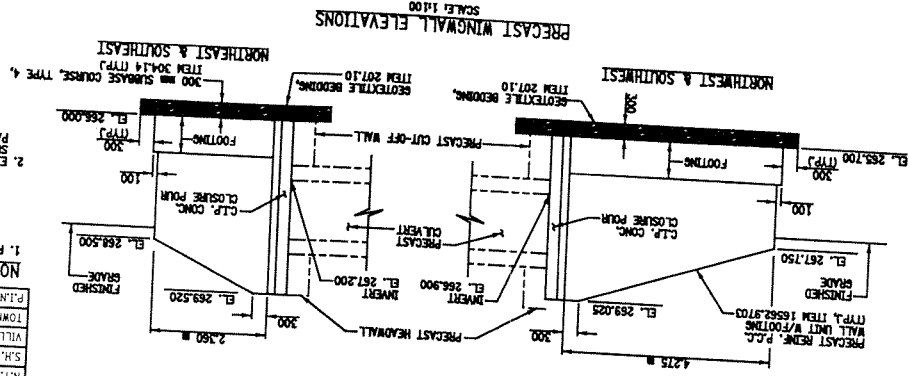
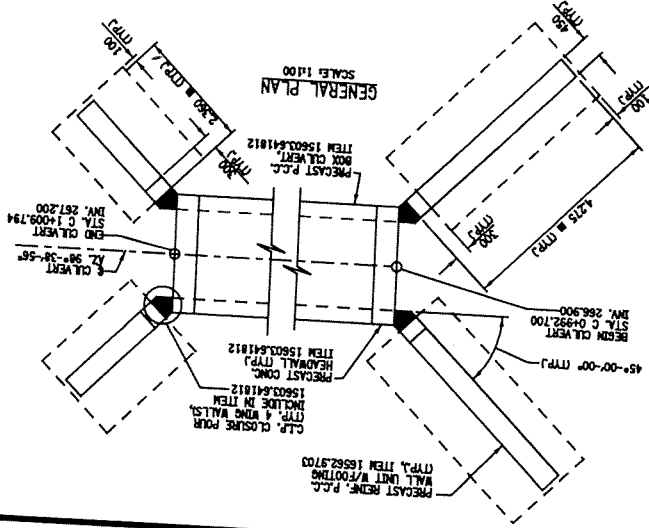
A. GENERAL NOTES.	DWG. NO.
B. CULVERT DETAILS - SECTION B-B.	BBC-3
C. CONSTRUCTION SEQUENCE.	RFC-2
D. WETLAND CONTROL DRAINAGE DIVERTER.	JRF-3
E. STANDARD DETAILS.	JRF-4
	CSO-1

2. DURING NEW CULVERT CONSTRUCTION FLOW SHALL BE MAINTAINED THROUGH EXISTING CULVERT AT STA. RF 13+10.623. FOR EXISTING CULVERT PLAN SEE DWG. RFC-2.

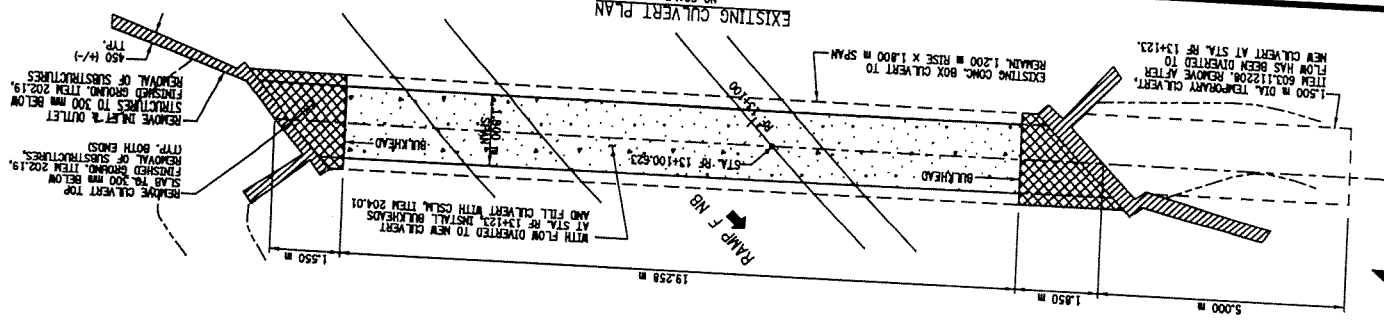
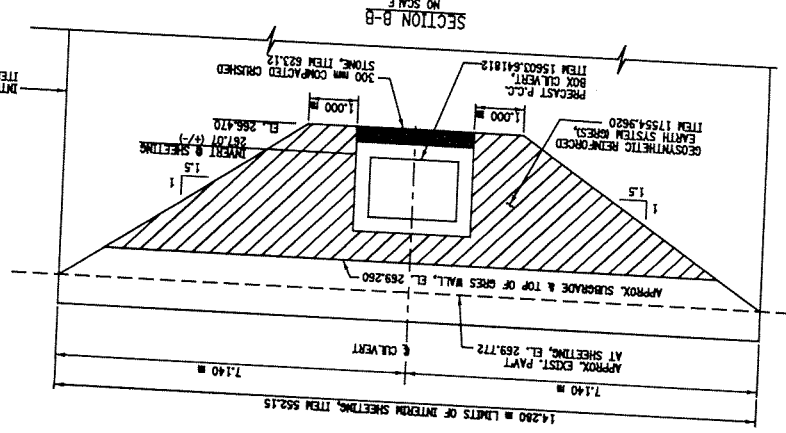


CHECKED BY

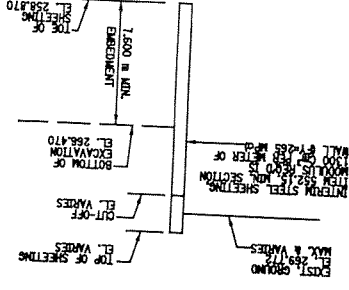
PROPOSED CULVERT IN RAMP F
(BETWEEN WETLAND B AND WE



TEMPORARY EXCAVATION SUPPORT SYSTEM DESIGN PARAMETERS					
LOCATION	ELEVATION (METERS)	UNIT WEIGHT (QD/M ³)	FRICTION ANGLE (DEGREES)	COHESION (KPA)	FRICTION ANGLE (DEGREES)
RF 13+123	005-265.3	19	30	0	0



~~SCHEMATIC INTERIM SHEETING DETAIL~~
ITEM 552.15
NO SCALE



NOTES:
1. FOR THE FOLLOWING SEE:

2. EXCAVATION/BACKFILL DETAILS NOT SHOWN
SEE DWG. HCC-2 FOR STANDARD EXCAV/BACKFILL
PAY LIMITS AND ITEM DESCRIPTIONS.

B. PLAN & LOCATION OF SECTION B-B
C. CONSTRUCTION SEQUENCE
D. STANDARD DETAILS

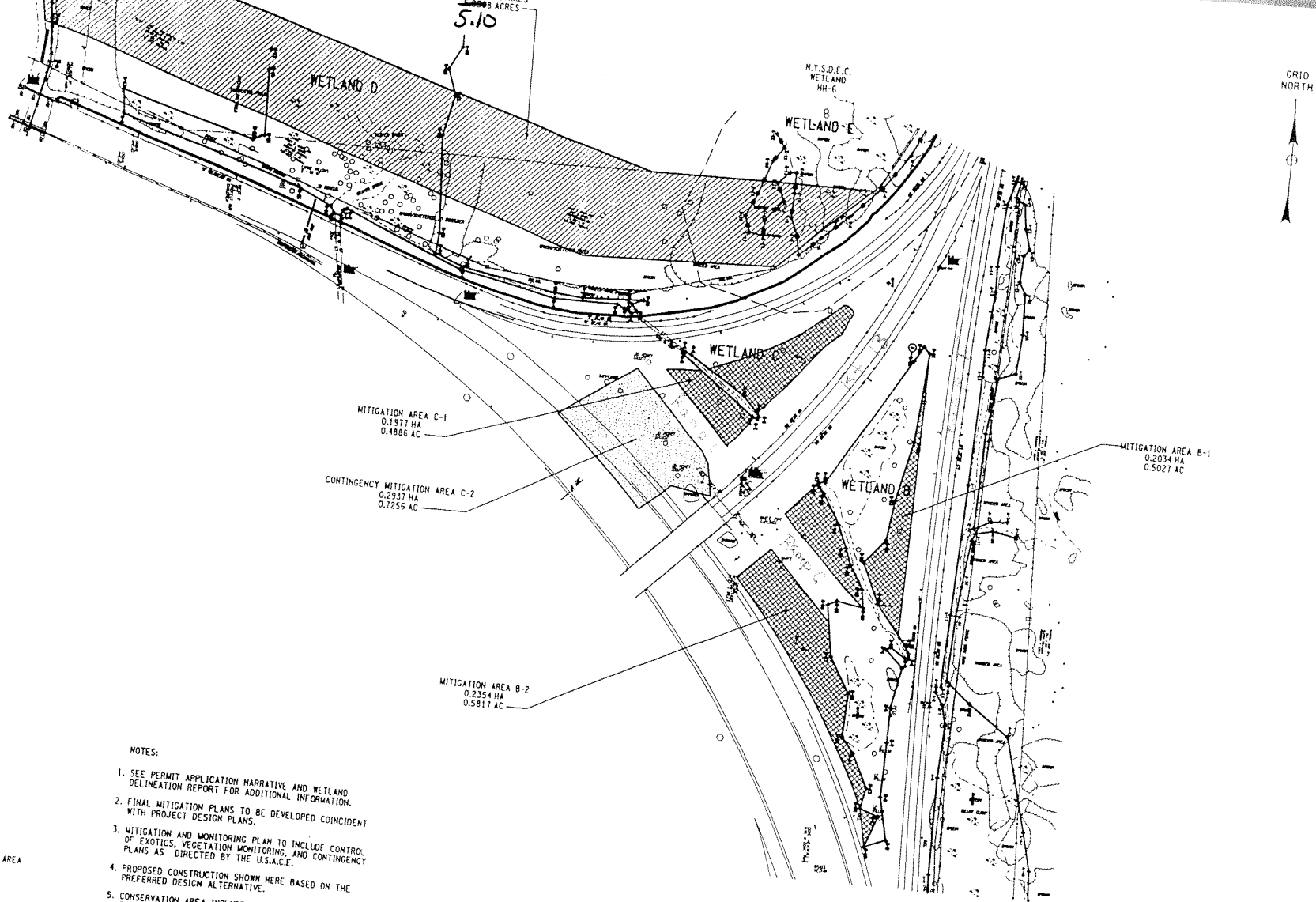
1. FOR THE FOLLOWING SEE:
A. GENERAL NOTES.

U.S. DEPARTMENT OF AGRICULTURE
BUREAU OF PLANT INDUSTRY
WASHINGTON, D. C.

S.H. 358, S.H. 5162, S.H. 53-5, S.H. 54-15
VILLAGE OF HORSEHEADS
TOWN OF HORSEHEADS

1	N.Y.		
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FED ROAD REC. NO.	STATE	CONTRACT NO.	SHEET NO.
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FA
Fisher Associates
ENGINEERS AND SURVEYORS
SEPTEMBER 2002

CONCEPT MITIGATION MAP
ROUTE 17
HORSEHEADS
FIGURE NO. 4

MITIGATION

NEW YORK STATE DEPARTMENT OF
TRANSPORTATION - PIN 6239.00
D/A Processing No. 2002-01646(1)
Chemung County, New York
Quad: HORSEHEADS
Sheet 25 of 29

FILE NAME = LANSBOT - REGION 6A 210001 TRANSP 62390041.W2
DATE/TIME = 02/28/2003
USER = C:\mg
DESIGN SUPERVISOR

JOB MANAGER
DESIGNED BY
CHECKED BY
ESTIMATED BY
DRAFTED BY
CHECKED BY

MITIGATION

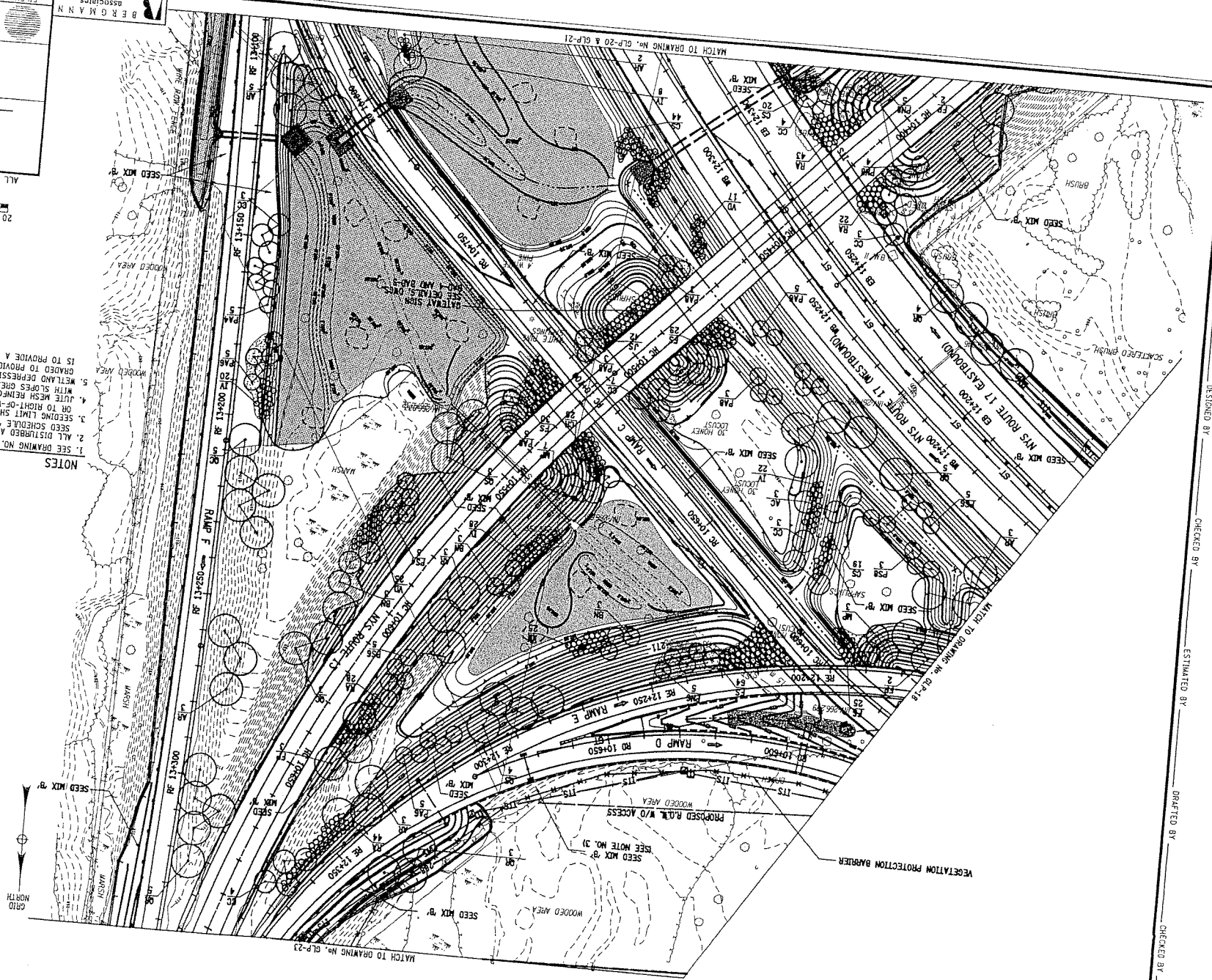
NEW YORK STATE DEPARTMENT OF
TRANSPORTATION - PIN 6239.00
D/A Processing No. 2002-01646(1)
Chemung County, New York
Quad: HORSEHEADS

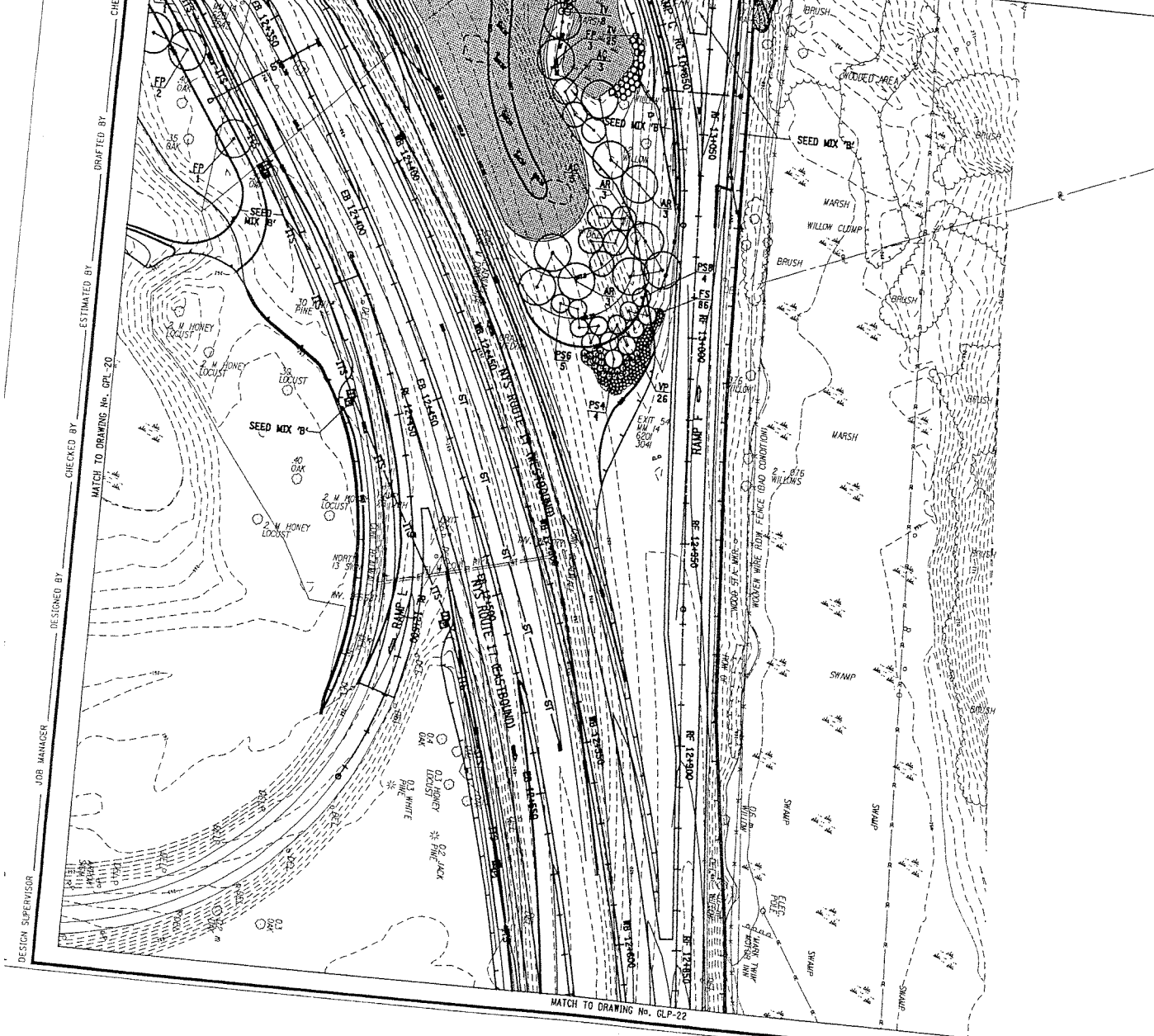
STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
LANDSCAPE PLAN
DATE
SIGNATURE
AS BUILT REVISIONS
SCALE IN METERS
DRAWING NO. 623900SLAP
REGION 6
DATE APRIL 2003
GLP-19

- NOTES
1. SEE DRAWING NO. LOT-8 FOR PLANT LIST KEY.
 2. ALL DISTURBED AREAS WITHIN PROJECT LIMIT/ROW SHALL RECEIVE SEED SCHEDULE 'A' UNLESS OTHERWISE NOTED.
 3. SEEDING LIMIT SHALL EXTEND 5 METERS OFF FACE OF USE WALL ON TO RIGHT-OF-WAY IF LESS THAN 5 METERS UNLESS OTHERWISE NOTED.
 4. WITH SLOPES GREATER THAN 1:3, SEEDING SHALL BE IN SHAPE AND SHALL BE IS TO PROVIDE A NATURAL LOOKING DEPRESSION.
 5. WETLAND DEPRESSIONS SHOULD BE IRREGULAR IN SHAPE AND SHALL BE GRADED TO PROVIDE A NATURAL LOOKING DEPRESSION.

- LEGEND
- WETLAND SEEDING AREA
 - WETLAND DEPRESSION AREA
 - MULCHED PLANTING BED AREA
 - PLANTING BED AREA
 - GROUND COVER / PERENNIAL
 - LIMIT OF SEED MIX
 - SPOT ELEVATION
 - PROPOSED CONTOUR
 - FILL LIMIT LINE
 - CUT LIMIT LINE
 - PROPOSED PLANTING
 - VEGETATION PROTECTION BAR
 - VEGETATION PROTECTION BARRIER

PROJECT NO. 6239.00
TOWN OF HORSEHEADS, COUNTY OF CHEMUNG
VILLAGE OF HORSEHEADS
S.H. 350, S.H. 5162, S.H. 51-5, S.H. 54-15
N.Y.S. ROUTE 17 - HORSEHEADS
1 N.Y.
STATE
REG. NO.
LAWYER'S NO.



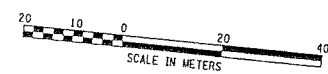


FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.			

N.Y.S. ROUTE 17 - HORSEHEADS
 S.H. 358, S.H. 5162, S.H. 93-5, S.H. 54-15
 VILLAGE OF HORSEHEADS
 TOWN OF HORSEHEADS, COUNTY OF CHEMUNG
 P.I.N. 6239.00 B.I.N.

- LEGEND**
- TREE PROTECTION BARRIER
ITEM 04615.0401
 - VEGETATION PROTECTION BARRIER
ITEM 04615.0402
 - TREE TO BE REMOVED
ITEM 611.XXXX
 - PROPOSED PLANTING
ITEM 611.XXXX
 - CUT LIMIT LINE
 - FILL LIMIT LINE
 - PROPOSED CONTOUR
 - SPOT ELEVATION
LIMIT OF SEED MIX
ITEM 610.0203
 - GROUND COVER / PERENNIAL
PLANTING BED AREA
 - MULCHED PLANTING BED AREA
ITEM XX615.XXXX
 - WETLAND DEPRESSION AREA
NOMINAL 6 m X 6 m X 150 mm DEPTH
ITEM 06615.AABCCC (SEE NOTE 5)
 - WETLAND SEEDING AREA
SEED MIX 'C'

- NOTES**
- SEE DRAWING NO. LOT-B FOR PLANT LIST KEY.
 - ALL DISTURBED AREAS WITHIN PROJECT LIMIT/ROW SHALL RECEIVE SEED SCHEDULE 'A' UNLESS OTHERWISE NOTED.
 - SEEDING LIMIT SHALL EXTEND 5 METERS OFF FACE OF MSE WALL OR TO RIGHT-OF-WAY IF LESS THAN 5 METERS UNLESS OTHERWISE NOTED.
 - JUTE MESH REINFORCEMENT TO BE USED ON ALL DISTURBED AREAS WITH SLOPES GREATER THAN 1:3.
 - WETLAND DEPRESSIONS SHOULD BE IRREGULAR IN SHAPE AND SHALL BE GRADED TO PROVIDE A ROUGH BOTTOM AND TO HOLD WATER. THE INTENT IS TO PROVIDE A NATURAL LOOKING DEPRESSION.



ALL DIMENSIONS ARE IN M UNLESS OTHERWISE NOTED
 AS BUILT REVISIONS

SIGNATURE _____ DATE _____

LANDSCAPE PLAN

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION

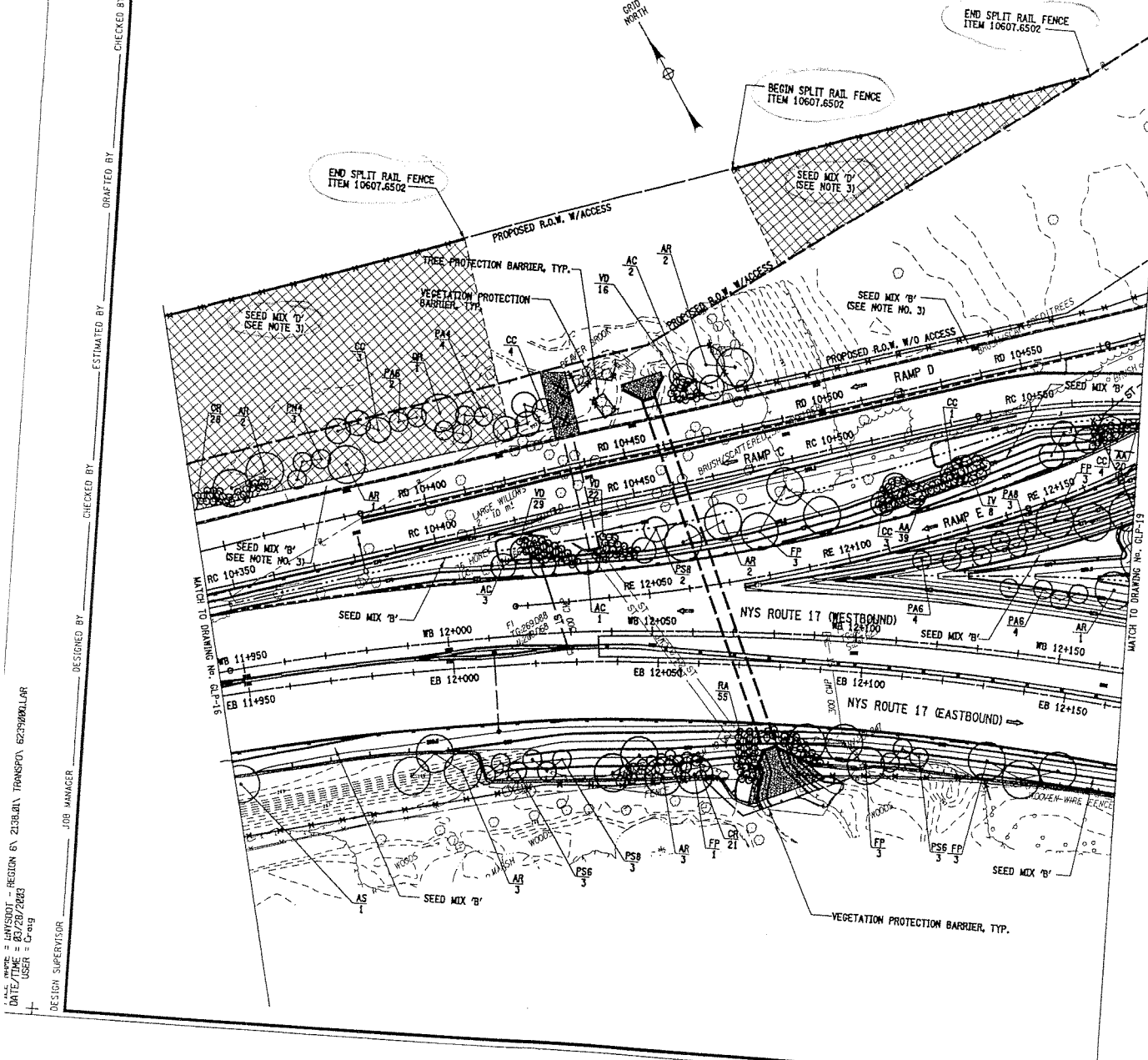
FILENAME 623900LLAR REGION 6 DATE APRIL 2003 DRAWING NO. GLE-21



MITIGATION

NEW YORK STATE DEPARTMENT OF
 TRANSPORTATION - PIN 6239.00
 D/A Processing No. 2002-01646(1)
 Chemung County, New York
 Quad: HORSEHEADS
 Sheet 27 of 29

DESIGN SUPERVISOR
 JOB MANAGER
 DESIGNED BY
 CHECKED BY
 ESTIMATED BY
 MATCH TO DRAWING NO. GLE-20
 MATCH TO DRAWING NO. GLE-22

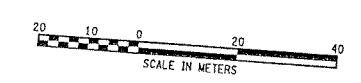


FED. ROAD REC. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEET
1	N.Y.			

N.Y.S. ROUTE 17 - HORSEHEADS
 S.H. 358, S.H. 5162, S.H. 53-5, S.H. 54-15
 VILLAGE OF HORSEHEADS
 TOWN OF HORSEHEADS, COUNTY OF CHEMUNG
 P.I.N. 6239.00 B.L.N.

- LEGEND**
- TREE PROTECTION BARRIER
ITEM 04615.0401
 - VEGETATION PROTECTION BARRIER
ITEM 04615.0402
 - TREE TO BE REMOVED
 - PROPOSED PLANTING
ITEM 611.XXXX
 - CUT LIMIT LINE
 - FILL LIMIT LINE
 - PROPOSED CONTOUR
 - SPOT ELEVATION
 - LIMIT OF SEED MIX
ITEM 610.0203
 - GROUND COVER / PERENNIAL
PLANTING BED AREA
 - MULCHED PLANTING BED AREA
ITEM XX615.XXXX
 - SEED MIX 'D'

- NOTES**
- SEE DRAWING NO. LDT-8 FOR PLANT LIST KEY.
 - ALL DISTURBED AREAS WITHIN PROJECT LIMIT/ROW SHALL RECEIVE SEED SCHEDULE 'A' UNLESS OTHERWISE NOTED.
 - SEEDING LIMIT SHALL EXTEND 5 METERS OFF FACE OF WGE WALL OR TO RIGHT-OF-WAY IF LESS THAN 5 METERS UNLESS OTHERWISE NOTED.
 - JUTE MESH REINFORCEMENT TO BE USED ON ALL DISTURBED AREAS WITH SLOPES GREATER THAN 1:3.



ALL DIMENSIONS ARE IN M. UNLESS OTHERWISE NOTED
 AS BUILT REVISIONS

SIGNATURE _____ DATE _____

LANDSCAPE PLAN

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION

FILENAME: 623900R.LAR REGION: 6 DATE: APRIL 2003 DRAWING NO.: GLP-18

MITIGATION

NEW YORK STATE DEPARTMENT OF
 TRANSPORTATION - PIN 6239.00
 D/A Processing No. 2002-01646(1)
 Chemung County, New York
 Quad: HORSEHEADS
 Sheet 29 of 29

CHECKED BY _____
 DRAFTED BY _____
 ESTIMATED BY _____
 DESIGNED BY _____
 JOB MANAGER _____
 DESIGN SUPERVISOR _____